

ADVANCED SEMICONDUCTOR ENGINEERING INC

Form 20-F

June 23, 2005

As filed with the Securities and Exchange Commission on June 23, 2005

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UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 20-F

REGISTRATION STATEMENT PURSUANT TO SECTION 12(b) OR 12(g) OF THE SECURITIES
EXCHANGE ACT OF 1934

OR

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE
ACT OF 1934

For the fiscal year ended December 31, 2004

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES
EXCHANGE ACT OF 1934

Commission file number: 001-16125

[LOGO]

(Exact Name of Registrant as Specified in Its Charter)

Advanced Semiconductor Engineering, Inc.
(Translation of Registrant's Name into English)

REPUBLIC OF CHINA
(Jurisdiction of Incorporation or Organization)

26 Chin Third Road
Nantze Export Processing Zone
Nantze, Kaohsiung, Taiwan
Republic of China
(Address of Principal Executive Offices)

Securities registered or to be registered pursuant to Section 12(b) of the Act:
None

Securities registered or to be registered pursuant to Section 12(g) of the Act:

| Title of Each Class | Name of Each Exchange on which Registered |
|--|---|
| Common Shares, par value NT\$10.00 each | The New York Stock Exchange* |

*Traded in the form of American Depositary Receipts evidencing American
Depositary Shares, each representing five Common Shares
(Title of Class)

Securities for which there is a reporting obligation pursuant to Section 15(d)
of the Act:

None
(Title of Class)

Indicate the number of outstanding shares of each of the issuer's classes of
capital or common stock as of the close of the period covered by the annual
report:

4,100,000,000 Common Shares, par value NT\$10 each

Indicate by check mark whether the Registrant (1) has filed all reports

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required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the Registrant was required to file such reports) and (2) has been subject to such filing requirements for the past 90 days.

Yes No

Indicate by check mark which financial statement item the Registrant has elected to follow.

Item 17 Item 18

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USE OF CERTAIN TERMS

All references herein to (i) the "Company", "ASE Group", "ASE Inc.", "we", "us", or "our" are to Advanced Semiconductor Engineering, Inc. and, unless the context requires otherwise, its subsidiaries, (ii) "ASE Test" are to ASE Test Limited and its subsidiaries, (iii) "ASE Test Taiwan" are to ASE Test, Inc., a company incorporated under the laws of the ROC, (iv) "ASE Test Malaysia" are to ASE Electronics (M) Sdn. Bhd., a company incorporated under the laws of Malaysia, (v) "ISE Labs" are to ISE Labs, Inc., a corporation incorporated under the laws of the State of California, (vi) "ASE Philippines" are to ASE Holdings Electronics (Philippines) Inc., a company previously incorporated under the laws of the Philippines, (vii) "Universal Scientific" are to Universal Scientific Industrial Co., Ltd., a company incorporated under the laws of the ROC, (viii) "ASE Material" are to ASE Material Inc., a company previously incorporated under the laws of the ROC that merged into ASE Inc. on August 1, 2004, (ix) "ASE Korea" are to ASE (Korea) Inc., a company incorporated under the laws of the Republic of Korea, (x) "ASE Chung Li" are to ASE (Chung Li) Inc., a company previously incorporated under the laws of the ROC that merged into ASE Inc. on August 1, 2004, (xi) "ASE Shanghai" are to ASE (Shanghai) Ltd., a company incorporated under the laws of the PRC, (xii) "Hung Ching" are to Hung Ching Development & Construction Co. Ltd., a company incorporated under the laws of the ROC, (xiii) the "Securities Act" are to the U.S. Securities Act of 1933, as

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amended, and (xiv) the "Exchange Act" are to the U.S. Securities Exchange Act of 1934, as amended.

All references to the "Republic of China", the "ROC" and "Taiwan" are to the Republic of China, including Taiwan and certain other possessions. All references to "Korea" or "South Korea" are to the Republic of Korea. All references to the "PRC" are to the People's Republic of China and exclude Taiwan, Macau and Hong Kong.

We publish our financial statements in New Taiwan dollars, the lawful currency of the ROC. In this annual report, references to "United States dollars", "U.S. dollars" and "US\$" are to the currency of the United States; references to "New Taiwan dollars", "NT dollars" and "NT\$" are to the currency of the ROC; references to "RMB" are to the currency of the PRC; references to "JP(Y)" are to the currency of Japan; references to "EUR" are to the currency of the European Union; and references to "KRW" are to the currency of the Republic of Korea. Unless otherwise noted, all translations from NT dollars to U.S. dollars were made at the noon buying rate in The City of New York for cable transfers in NT dollars per U.S. dollar as certified for customs purposes by the Federal Reserve Bank of New York as of December 31, 2004, which was NT\$31.74=US\$1.00. All amounts translated into U.S. dollars in this annual report are provided solely for your convenience and no representation is made that the NT dollar or U.S. dollar amounts referred to herein could have been or could be converted into U.S. dollars or NT dollars, as the case may be, at any particular rate or at all. On May 31, 2005, the noon buying rate was NT\$31.13=US\$1.00.

SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This annual report on Form 20-F contains "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, including statements regarding our future results of operations and business prospects. Although these forward-looking statements, which may include statements regarding our future results of operations, financial condition or business prospects, are based on our own information and information from other sources we believe to be reliable, you should not place undue reliance on these forward-looking statements, which apply only as of the date of this annual report. Some of these forward-looking statements are derived from projections made and published by Gartner Dataquest and Semiconductor Industry Association. We were not involved in the preparation of these projections. The words "anticipate", "believe", "estimate", "expect", "intend", "plan" and similar expressions, as they relate to us, are intended to identify these forward-looking statements in this annual report. Our actual results of operations, financial condition or business prospects may differ materially from those expressed or implied in these forward-looking statements for a variety of reasons, including risks associated with cyclicalities and market conditions in the semiconductor industry; demand for the outsourced semiconductor packaging and testing services we offer and for such outsourced services generally; the highly competitive semiconductor industry; our ability to introduce new packaging, interconnect materials and testing technologies in order to remain competitive; our ability to successfully integrate pending and future mergers and acquisitions; international business activities; our business strategy; our future expansion plans and capital expenditures; the strained relationship between the ROC and the

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People's Republic of China, or the PRC; general economic and political conditions; possible disruptions in commercial activities caused by natural or human-induced disasters, including terrorist activity and armed conflict; fluctuations in foreign currency exchange rates; and other factors. For a discussion of these risks and other factors, see "Item 3. Key Information--Risk Factors".

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PART I

Item 1. Identity of Directors, Senior Management and Advisers

Not applicable.

Item 2. Offer Statistics and Expected Timetable

Not applicable.

Item 3. Key Information

SELECTED FINANCIAL DATA

The selected consolidated income statement data and cash flow data for the years ended December 31, 2002, 2003 and 2004, and the selected consolidated balance sheet data as of December 31, 2003 and 2004, set forth below are derived from our audited consolidated financial statements included in this annual report and should be read in conjunction with, and are qualified in their entirety by reference to, these consolidated financial statements. Our consolidated financial statements as of and for the years ended December 31, 2003 and 2004 have been audited by Deloitte & Touche, a member firm of Deloitte Touche Tohmatsu. Our consolidated financial statements as of and for the year ended December 31, 2002 have been audited by TN Soong & Co, independent public accountants, which was at the time of such financial statements an associate member firm of Deloitte Touche Tohmatsu. TN Soong & Co and Deloitte & Touche (Taiwan) combined on June 1, 2003 to establish Deloitte & Touche, a member firm of Deloitte Touche Tohmatsu. The selected consolidated income statement data and cash flow data for the years ended December 31, 2000 and 2001 and the selected consolidated balance sheet data as of December 31, 2000, 2001 and 2002 set forth below are derived from our audited consolidated financial statements not included in this annual report. Our consolidated financial statements as of and for the years ended December 31, 2000 and 2001 have been audited by TN Soong & Co, independent public accountants, which was at the time of such financial statements an associate member firm of Deloitte Touche Tohmatsu. Prior to April 22, 2002, TN Soong & Co was a member firm of Andersen Worldwide SC. Our consolidated financial statements have been prepared and presented in accordance with generally accepted accounting principles in the ROC, or ROC GAAP, which differ in material respects from generally accepted accounting principles in the United States, or U.S. GAAP. See notes 29 and 30 to our consolidated financial statements for a description of the principal differences between ROC GAAP and U.S. GAAP for the periods covered by these consolidated financial statements.

As of and for the Year Ended December 31,

| 2000 | 2001 | 2002 | 2003 | 2004 | |
|------|------|------|------|------|------|
| NT\$ | NT\$ | NT\$ | NT\$ | NT\$ | US\$ |

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(in millions, except earnings per share and per ADS data)

ROC GAAP:

Income Statement Data:

| | | | | | | |
|---|------------|------------|------------|------------|------------|-----------|
| Net revenues..... | 50,893.4 | 38,367.8 | 45,586.8 | 57,311.8 | 81,712.6 | 2,574.5 |
| Cost of revenues..... | (35,567.3) | (32,957.0) | (38,492.2) | (46,466.5) | (65,447.1) | (2,062.0) |
| <hr/> | | | | | | |
| Gross profit..... | 15,326.1 | 5,410.8 | 7,094.6 | 10,845.3 | 16,265.5 | 512.5 |
| Total operating expenses..... | (5,449.0) | (5,872.9) | (6,554.2) | (7,574.8) | (8,714.3) | (274.6) |
| <hr/> | | | | | | |
| Operating expenses: | | | | | | |
| Selling..... | (1,020.5) | (877.9) | (909.4) | (1,204.9) | (1,041.2) | (32.8) |
| General and administrative..... | (2,606.2) | (2,797.6) | (2,780.2) | (3,196.6) | (4,211.0) | (132.8) |
| Goodwill amortization..... | (559.8) | (692.9) | (815.6) | (819.3) | (877.6) | (27.6) |
| Research and development.... | (1,262.5) | (1,504.5) | (2,049.0) | (2,354.0) | 2,584.5) | (81.4) |
| <hr/> | | | | | | |
| Income (loss) from operations..... | 9,877.1 | (462.1) | 540.4 | 3,270.5 | 7,551.2 | 237.9 |
| Net non-operating income (expense): | | | | | | |
| Investment income (loss) on long-term investments--net..... | 195.7 | (868.8) | (162.4) | (20.1) | (174.4) | (5.5) |
| Goodwill amortization..... | (363.0) | (378.0) | (247.9) | (220.6) | (220.6) | (7.0) |
| Gain (loss) on sale of investments--net..... | 91.7 | 50.7 | 101.3 | 618.9 | 57.1 | 1.8 |
| Foreign exchange gain (loss)--net..... | 302.7 | 247.5 | (397.9) | (386.8) | (146.2) | (4.6) |
| Realized loss on long-term investments..... | -- | -- | -- | (354.8) | -- | -- |
| Interest income (expense)--net..... | (1,538.0) | (1,739.3) | (1,578.6) | (1,304.7) | (898.7) | (28.3) |

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As of and for the Year Ended December 31,

| | 2000 | 2001 | 2002 | 2003 | 2004 | |
|--------------------------------------|---------|-----------|-----------|---------|-----------|--------|
| | NT\$ | NT\$ | NT\$ | NT\$ | NT\$ | US\$ |
| <hr/> | | | | | | |
| Impairment of long-lived assets(1). | -- | -- | (1,225.6) | -- | -- | -- |
| Impairment of goodwill(2)..... | -- | -- | -- | -- | (1,950.1) | (61.4) |
| Other investment loss(3) | -- | -- | -- | -- | (512.0) | (16.1) |
| Others--net..... | (162.6) | 164.5 | 261.0 | (114.6) | (174.5) | (5.5) |
| <hr/> | | | | | | |
| Income (loss) before income tax..... | 8,403.6 | (2,985.5) | (2,709.7) | 1,487.8 | 3,531.8 | 111.3 |
| Income tax benefit | | | | | | |

(in millions, except earnings per share and per ADS data)

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| | | | | | | |
|--|-----------|-----------|-----------|-----------|-----------|---------|
| (expense)..... | (1,065.8) | 199.2 | 1,140.3 | 1,278.1 | 1,396.3 | 44.0 |
| Income (loss) before extraordinary loss and cumulative effect of change in accounting principle..... | 7,337.8 | (2,786.3) | (1,569.4) | 2,765.9 | 4,928.1 | 155.3 |
| Extraordinary loss..... | -- | (144.6) | (34.6) | (75.7) | -- | -- |
| Cumulative effect of change in accounting principle(4)..... | -- | -- | -- | -- | (26.8) | (0.9) |
| Minority interest in net loss (income) of subsidiaries..... | (1,500.6) | 788.7 | 1,733.0 | 52.6 | (691.6) | (21.8) |
| Net income (loss)..... | 5,837.2 | (2,142.2) | 129.0 | 2,742.8 | 4,209.7 | 132.6 |
| Earnings per common share(5): | | | | | | |
| Basic..... | 1.58 | (0.56) | 0.04 | 0.74 | 1.09 | 0.03 |
| Diluted..... | 1.54 | (0.56) | 0.04 | 0.73 | 1.06 | 0.03 |
| Dividends per common share(6)..... | 3.15 | 1.70 | -- | 1.00 | 0.57 | 0.02 |
| Earnings per equivalent ADS(5): | | | | | | |
| Basic..... | 7.89 | (2.82) | 0.18 | 3.69 | 5.46 | 0.17 |
| Diluted..... | 7.71 | (2.82) | 0.18 | 3.65 | 5.31 | 0.17 |
| Number of common shares(7): | | | | | | |
| Basic..... | 3,698.7 | 3,801.5 | 3,609.8 | 3,721.2 | 3,856.0 | 3,856.0 |
| Diluted..... | 3,698.7 | 3,801.5 | 3,609.8 | 3,755.6 | 4,110.1 | 4,110.1 |
| Number of equivalent ADSs: | | | | | | |
| Basic..... | 739.7 | 760.3 | 722.0 | 744.2 | 771.2 | 771.2 |
| Diluted..... | 739.7 | 760.3 | 722.0 | 751.1 | 822.0 | 822.0 |
| BALANCE SHEET DATA: | | | | | | |
| Current assets: | | | | | | |
| Cash and cash equivalents..... | 14,166.5 | 11,770.7 | 9,829.5 | 8,562.4 | 5,975.1 | 188.3 |
| Short-term investments | 1,682.7 | 4,601.2 | 2,590.4 | 3,017.8 | 3,194.2 | 100.6 |
| Notes and accounts receivable..... | 9,260.6 | 7,126.1 | 8,998.5 | 12,909.7 | 13,676.2 | 430.9 |
| Inventories..... | 3,246.3 | 2,768.4 | 3,131.7 | 4,691.8 | 9,437.3 | 297.3 |
| Others..... | 2,431.6 | 3,383.2 | 2,481.7 | 2,276.2 | 3,612.1 | 113.8 |
| Total..... | 30,787.7 | 29,649.6 | 27,031.8 | 31,457.9 | 35,894.9 | 1,130.9 |
| Long-term investments... | 10,712.2 | 9,530.4 | 6,566.7 | 6,342.8 | 4,907.4 | 154.6 |
| Properties..... | 60,566.2 | 60,555.1 | 63,088.9 | 67,339.9 | 82,386.9 | 2,595.7 |
| Other assets..... | 1,275.6 | 1,342.3 | 2,675.8 | 4,587.4 | 7,425.3 | 234.0 |
| Goodwill..... | 4,999.5 | 5,248.9 | 5,541.8 | 4,596.2 | 3,336.4 | 105.1 |
| Total assets..... | 108,341.2 | 106,326.3 | 104,905.0 | 114,324.2 | 133,950.9 | 4,220.3 |
| Short-term borrowings(8) | 13,768.0 | 13,983.1 | 13,453.8 | 14,090.2 | 6,852.8 | 215.9 |
| Long-term liabilities(9) | 25,976.9 | 30,674.3 | 30,553.7 | 30,840.1 | 46,529.6 | 1,466.0 |
| Other liabilities and minority interest..... | 24,927.1 | 19,722.6 | 21,466.8 | 24,271.3 | 29,256.7 | 921.8 |
| Total liabilities and minority interest..... | 64,672.0 | 64,380.0 | 65,474.3 | 69,201.6 | 82,639.1 | 2,603.7 |
| Capital stock..... | 27,520.0 | 32,548.0 | 32,548.0 | 35,802.8 | 41,000.0 | 1,291.7 |
| Shareholders' equity.... | 43,669.2 | 41,946.3 | 39,430.7 | 45,122.6 | 51,311.8 | 1,616.6 |

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CASH FLOW DATA:

| | | | | | | |
|--|------------|------------|------------|------------|------------|---------|
| Net cash outflow from acquisition of fixed assets..... | (30,063.6) | (13,816.5) | (12,657.9) | (17,534.1) | (28,523.5) | (898.7) |
| Depreciation and amortization..... | 8,593.8 | 11,127.3 | 12,286.3 | 12,766.6 | 14,786.3 | 465.9 |
| Net cash inflow from operations..... | 17,459.9 | 11,578.4 | 11,313.8 | 13,306.2 | 19,487.0 | 614.0 |
| Net cash inflow from sale of ASE Inc. common shares..... | -- | -- | -- | 2,850.5 | -- | -- |
| Net cash outflow from investing activities.. | (33,392.0) | (17,302.0) | (13,719.7) | (18,572.6) | (30,825.3) | (971.2) |
| Net cash inflow from financing activities.. | 17,607.3 | 2,854.5 | 530.5 | 4,210.9 | 9,166.3 | 288.8 |

4

As of and for the Year Ended December 31,

| 2000 | 2001 | 2002 | 2003 | 2004 | |
|------|------|------|------|------|------|
| NT\$ | NT\$ | NT\$ | NT\$ | NT\$ | US\$ |

(in millions, except earnings per share and per ADS data)

Segment Data:

| | | | | | | |
|----------------|----------|----------|----------|----------|----------|---------|
| Net revenues: | | | | | | |
| Packaging..... | 38,028.8 | 28,898.2 | 35,515.4 | 45,026.9 | 64,736.8 | 2,039.6 |
| Testing..... | 12,768.4 | 9,459.2 | 10,060.6 | 12,142.4 | 16,473.9 | 519.1 |
| Others..... | 96.2 | 10.4 | 10.8 | 142.5 | 501.9 | 15.8 |
| Gross profit: | | | | | | |
| Packaging..... | 10,016.9 | 4,625.8 | 6,255.4 | 7,984.3 | 11,814.9 | 372.3 |
| Testing..... | 5,294.4 | 782.8 | 841.2 | 2,855.3 | 4,332.7 | 136.5 |
| Others..... | 14.8 | 2.2 | (2.0) | 5.7 | 117.9 | 3.7 |

As of and for the Year Ended December 31,

| 2000 | 2001 | 2002 | 2003 | 2004 | |
|------|------|------|------|------|------|
| NT\$ | NT\$ | NT\$ | NT\$ | NT\$ | US\$ |

(in millions, except earnings per share and per ADS data)

U.S. GAAP:

Income Statement Data:

| | | | | | | |
|--------------------------|----------|----------|----------|----------|----------|---------|
| Net revenues..... | 50,893.4 | 38,367.8 | 45,586.8 | 57,311.8 | 81,712.6 | 2,574.4 |
| Cost of revenues..... | 37,081.2 | 34,538.3 | 39,308.2 | 47,747.5 | 65,836.0 | 2,074.2 |
| Gross profit..... | 13,812.2 | 3,829.5 | 6,278.6 | 9,564.3 | 15,876.6 | 500.2 |
| Total operating expenses | 5,820.8 | 6,209.9 | 9,294.2 | 7,116.9 | 7,302.1 | 230.1 |

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| | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|----------------|
| Income (loss) from operations..... | 7,991.4 | (2,380.4) | (3,015.6) | 2,447.4 | 8,574.5 | 270.1 |
| Net non-operating income (expense)..... | (1,502.5) | (2,704.6) | (2,793.8) | (1,314.0) | (5,152.7) | (162.3) |
| Income tax benefit (expense)..... | (1,059.2) | 254.4 | 1,162.6 | 1,289.1 | 1,505.4 | 47.4 |
| Cumulative effect of change in accounting principle(4)..... | -- | -- | -- | -- | (26.8) | (0.8) |
| Minority interest in net loss (income) of subsidiaries..... | (1,499.7) | 784.0 | 1,572.5 | (70.5) | (603.3) | (19.0) |
| Net income (loss)..... | <u>3,930.0</u> | <u>(4,046.6)</u> | <u>(3,074.3)</u> | <u>2,352.0</u> | <u>4,297.1</u> | <u>135.4</u> |
| Earnings per common share(5): | | | | | | |
| Basic..... | 1.15 | (1.13) | (0.85) | 0.63 | 1.11 | 0.03 |
| Diluted..... | 1.11 | (1.13) | (0.85) | 0.63 | 1.09 | 0.03 |
| Earnings per equivalent ADS(5): | | | | | | |
| Basic..... | 5.73 | (5.64) | (4.26) | 3.16 | 5.57 | 0.18 |
| Diluted..... | 5.54 | (5.64) | (4.26) | 3.13 | 5.43 | 0.17 |
| Number of common shares(10): | | | | | | |
| Basic..... | 3,431.5 | 3,587.1 | 3,609.8 | 3,721.2 | 3,856.0 | 3,856.0 |
| Diluted..... | 3,431.5 | 3,587.1 | 3,609.8 | 3,755.6 | 4,110.1 | 4110.1 |
| Number of equivalent ADSs: | | | | | | |
| Basic..... | 686.3 | 717.4 | 722.0 | 744.2 | 771.2 | 771.2 |
| Diluted..... | 686.3 | 717.4 | 722.0 | 751.1 | 822.0 | 822.0 |
| Balance Sheet Data: | | | | | | |
| Current Assets | | | | | | |
| Cash and cash equivalents..... | 14,166.5 | 11,770.7 | 9,829.5 | 8,562.4 | 5,975.1 | 188.3 |
| Short-term investments | 1,717.6 | 4,642.1 | 2,592.4 | 3,022.9 | 3,198.4 | 100.8 |
| Notes and accounts receivable..... | 9,260.6 | 7,126.1 | 8,998.5 | 12,909.8 | 13,676.2 | 430.9 |
| Inventories..... | 3,246.3 | 2,768.4 | 3,131.7 | 4,691.8 | 9,437.3 | 297.3 |
| Others..... | 2,431.6 | 3,383.2 | 2,481.7 | 2,276.2 | 3,612.1 | 113.8 |
| Total..... | <u>30,822.6</u> | <u>29,690.5</u> | <u>27,033.8</u> | <u>31,463.1</u> | <u>35,899.1</u> | <u>1,131.1</u> |
| Long-term investments... | 8,044.2 | 6,608.3 | 5,609.3 | 5,571.4 | 3,377.6 | 106.4 |
| Properties..... | 60,422.6 | 60,363.1 | 62,797.4 | 66,947.6 | 81,896.2 | 2,580.2 |
| Other assets..... | 1,275.6 | 1,371.0 | 2,715.3 | 4,637.8 | 7,584.9 | 239.0 |
| Consolidated debits..... | 4,951.9 | 4,331.6 | 3,227.0 | 3,100.8 | 3,330.9 | 104.9 |
| Total assets..... | <u>105,516.9</u> | <u>102,364.5</u> | <u>101,382.8</u> | <u>111,720.7</u> | <u>132,088.7</u> | <u>4,161.6</u> |
| Short-term borrowings(8) | 13,768.0 | 13,983.1 | 13,453.8 | 14,090.2 | 6,852.8 | 215.9 |
| Long-term liabilities(9) | 25,976.9 | 30,674.3 | 30,553.7 | 30,840.1 | 46,529.6 | 1,466.0 |
| Other liabilities and minority interest..... | 25,042.9 | 19,746.8 | 21,658.5 | 24,707.4 | 30,059.7 | 947.0 |
| Total liabilities and minority interest..... | <u>64,787.8</u> | <u>64,404.2</u> | <u>65,666.0</u> | <u>69,637.7</u> | <u>83,442.1</u> | <u>2,628.9</u> |
| Capital stock..... | 27,520.0 | 32,548.0 | 32,548.0 | 35,802.0 | 41,000.0 | 1,291.7 |
| Shareholders' equity.... | 40,729.1 | 37,960.3 | 35,716.8 | 42,083.0 | 48,646.6 | 1,532.7 |

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- (1) In 2002, we took a NT\$1,225.6 million impairment charge against some of our testing equipment to reflect the decline in economic value of such equipment. Whereas this impairment charge was previously recognized under general and administrative operating expenses, in 2004, as a result of our adoption of ROC SFAS No. 35, "Impairment of Assets", we reclassified this 2002 impairment charge as an individual line item under non-operating income (expenses). For more information on the reclassification, see "Item 5. Operating and Financial Review and Prospects--Operating Results and Trend Information--Critical Accounting Policies and Estimates" and note 9 to our consolidated financial statements.
 - (2) For the year ended December 31, 2004, we adopted ROC SFAS No. 35, "Impairment of Assets". In addition to yearly amortization, under ROC SFAS No. 35, goodwill is evaluated at least annually to determine if it is impaired. As a result of our annual impairment review, we recognized an impairment charge of NT\$1,950.1 million (US\$61.4 million) for goodwill relating to our shares of ASE Test and ISE Labs. For more information on impairment of goodwill, see "Item 5. Operating and Financial Review and Prospects--Operating Results and Trend Information-- Critical Accounting Policies and Estimates" and notes 3 and 10 to our consolidated financial statements.
 - (3) As a result of our annual impairment review, we recognized an impairment charge of NT\$512.0 million (US\$16.1 million) for goodwill relating to our unconsolidated affiliate Universal Scientific. See "Item 5. Operating and Financial Review and Prospects--Operating Results and Trend Information--Critical Accounting Polices and Estimates" and notes 3 and 8 to our consolidated financial statements.
 - (4) As a result of our introduction of enterprise resource planning, or ERP, in order to increase our ability to effectively monitor our entire organization's resource allocation, we switched from using the weighted-average method to using the moving-average method to price our raw materials and supplies. For more information on this accounting change, see "Item 5. Operating and Financial Review and Prospects--Operating Results and Trend Information--Critical Accounting Policies and Estimates--Inventories" and note 3 to our consolidated financial statements.
 - (5) The denominators for diluted earnings per common share and diluted earnings per equivalent ADS are calculated to account for the potential conversion of our convertible bonds into our common shares and ADS. See "Item 5. Operating and Financial Review and Prospects--Liquidity and Capital Resources" and note 22 to our consolidated financial statements.
 - (6) Dividends per common share issued as a stock dividend.
 - (7) Represents the weighted average number of shares after retroactive adjustments to give effect to stock dividends and employee stock bonuses. Beginning in 2002, common shares held by consolidated subsidiaries are classified for accounting purposes as "treasury stock", and are deducted from the number of common shares outstanding.
 - (8) Includes current portions of long-term debt, obligations under capital leases and long-term payable for investments.
 - (9) Excludes current portions of long-term debt, obligations under capital

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leases and long-term payable for investments.

- (10) Represents the weighted average number of common shares after retroactive adjustments to give effect to stock dividends.

Exchange Rates

Fluctuations in the exchange rate between NT dollars and U.S. dollars will affect the U.S. dollar equivalent of the NT dollar price of the common shares on the Taiwan Stock Exchange and, as a result, will likely affect the market price of the American depositary shares, or ADSs. Fluctuations will also affect the U.S. dollar conversion by the depositary under our ADS deposit agreement referred to below of cash dividends paid in NT dollars on, and the NT dollar proceeds received by the depositary from any sale of, common shares represented by ADSs, in each case, according to the terms of the deposit agreement dated September 29, 2000 among us, Citibank N.A., as depositary, and the holders and beneficial owners from time to time of the ADSs, and supplemented by a letter agreement between us and the depositary dated September 25, 2003, which we collectively refer to as the deposit agreement.

The following table sets forth, for the periods indicated, information concerning the number of NT dollars for which one U.S. dollar could be exchanged based on the noon buying rate for cable transfers in NT dollars as certified for customs purposes by the Federal Reserve Bank of New York.

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| | NT Dollars per U.S. Dollar Noon Buying Rate | | | |
|---------------|---|-------|-------|------------|
| | Average | High | Low | Period-End |
| 2000..... | 31.37 | 33.25 | 30.35 | 33.17 |
| 2001..... | 33.91 | 35.13 | 32.23 | 35.00 |
| 2002..... | 34.53 | 34.79 | 34.70 | 34.70 |
| 2003..... | 34.40 | 34.98 | 33.72 | 33.99 |
| 2004..... | 33.37 | 33.98 | 33.10 | 33.24 |
| November..... | 32.78 | 33.48 | 32.17 | 32.20 |
| December..... | 32.17 | 32.49 | 31.74 | 31.74 |
| 2005 | | | | |
| January..... | 31.85 | 32.22 | 31.65 | 31.71 |
| February..... | 31.50 | 31.79 | 31.06 | 31.06 |
| March..... | 31.11 | 31.73 | 30.65 | 31.46 |
| April..... | 31.48 | 31.70 | 31.23 | 31.23 |
| May..... | 31.27 | 31.47 | 30.98 | 31.13 |

Source: Federal Reserve Statistical Release, Board of Governors of the Federal Reserve System.

On May 31, 2005, the noon buying rate was NT\$31.13 to US\$1.00.

CAPITALIZATION AND INDEBTEDNESS

Not applicable.

REASON FOR THE OFFER AND USE OF PROCEEDS

Not applicable.

RISK FACTORS

Risks Relating to Our Business

Since we are dependent on the highly cyclical semiconductor industry and conditions in the markets for the end-use applications of our products, our revenues and net income may fluctuate significantly.

Our semiconductor packaging and testing business is affected by market conditions in the highly cyclical semiconductor industry. All of our customers operate in this industry, and variations in order levels from our customers and service fee rates may result in volatility in our revenues and net income. From time to time, the semiconductor industry has experienced significant, and sometimes prolonged, downturns. As our business is, and will continue to be, dependent on the requirements of semiconductor companies for independent packaging and testing services, any future downturn in the semiconductor industry would reduce demand for our services. For example, in the fourth quarter of 2000, a worldwide downturn resulted in a significant deterioration in the average selling prices of, as well as demand for, our services in 2001, and significantly and adversely affected our operating results in 2001. Although the modest recovery in the semiconductor industry, evident in 2002 and 2003, strengthened in 2004, we expect market conditions to continue to exert downward pressure on the average selling prices for our packaging and testing services. If we cannot reduce our costs to sufficiently offset any decline in average selling prices, our profitability will suffer and we may incur losses.

Market conditions in the semiconductor industry depend to a large degree on conditions in the markets for the end-use applications of semiconductor products, such as communications, personal computer and consumer electronics products. Any deterioration of conditions in the markets for the end-use applications of the semiconductors we package and test would reduce demand for our services, and would likely have a material adverse effect on our financial condition and results of operations. In 2004, approximately 42.5%, 29.8% and 24.5% of our net revenues were attributed to the packaging and testing of semiconductors used in communications, personal computer, and consumer electronics applications, respectively. In 2003, approximately 34.9%, 35.7% and 28.3% of our net revenues were attributable to the packaging and testing of semiconductors used in communications, personal computer, and consumer electronics applications, respectively. In 2002, approximately 34.4%, 35.4% and 28.8% of our net revenues were attributable to the packaging and testing of semiconductors used in

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communications, personal computer, and consumer electronics applications, respectively. Each of the markets for end-use applications is subject to intense competition and significant shifts in demand, which could put pricing pressure on the packaging and testing services provided by us and adversely affect our revenues and net income.

A reversal or slowdown in the outsourcing trend for semiconductor packaging and testing services could adversely affect our growth prospects and profitability.

In recent years, semiconductor manufacturers that have their own in-house

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packaging and testing capabilities, known as integrated device manufacturers, have increasingly outsourced stages of the semiconductor production process, including packaging and testing, to independent companies in order to reduce costs and shorten production cycles. In addition, the availability of advanced independent semiconductor manufacturing services has also enabled the growth of so-called "fabless" semiconductor companies that focus exclusively on design and marketing, and that outsource their manufacturing, packaging and testing requirements to independent companies. We cannot assure you that these integrated device manufacturers and fabless semiconductor companies will continue to outsource their packaging and testing requirements to third parties like us. A reversal of, or a slowdown in, this outsourcing trend could result in reduced demand for our services and adversely affect our growth prospects and profitability.

If we are unable to compete favorably in the highly competitive semiconductor packaging and testing markets, our revenues and net income may decrease.

The semiconductor packaging and testing markets are very competitive. We face competition from a number of sources, including other independent semiconductor packaging and testing companies, especially those that offer turnkey packaging and testing services. We believe that the principal competitive factors in the markets for our products and services are:

- o the ability to provide total solutions to our customers;
- o technological expertise;
- o range of package types and testing platforms available;
- o the ability to design and produce advanced and cost-competitive interconnect materials;
- o the ability to work closely with our customers at the product development stage;
- o responsiveness and flexibility;
- o capacity;
- o production cycle time;
- o production yield; and
- o price.

We face increasing competition from other packaging and testing companies, as most of our customers obtain packaging or testing services from more than one source. In addition, some of our competitors may have access to more advanced technologies and greater financial and other resources than we do. Many of our competitors have shown a willingness to quickly and sharply reduce prices, as they did in 2001, in order to maintain capacity utilization in their facilities during periods of reduced demand. Although prices have stabilized, any renewed erosion in the prices for our packaging and testing services could cause our revenues and net income to decrease and have a material adverse effect on our financial condition and results of operations.

Our profitability depends on our ability to respond to rapid technological changes in the semiconductor industry.

The semiconductor industry is characterized by rapid increases in the diversity and complexity of semiconductors. As a result, we expect that we will

need to constantly offer more sophisticated packaging and testing technologies and processes in order to respond to competitive industry conditions and customer

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requirements. If we fail to develop, or obtain access to, advances in packaging or testing technologies or processes, we may become less competitive and less profitable. In addition, advances in technology typically lead to declining average selling prices for semiconductors packaged or tested with older technologies or processes. As a result, if we cannot reduce the costs associated with our services, the profitability of a given service and our overall profitability, may decrease over time.

Our operating results are subject to significant fluctuations, which could adversely affect the market value of your investment.

Our operating results have varied significantly from period to period and may continue to vary in the future. Downward fluctuations in our operating results may result in decreases in the market price of the common shares and the ADSs. Among the more important factors affecting our quarterly and annual operating results are the following:

- o changes in general economic and business conditions, particularly given the cyclical nature of the semiconductor industry and the markets served by our customers;
- o our ability to quickly adjust to unanticipated declines or shortfalls in demand and market prices for our packaging and testing services, due to our high percentage of fixed costs;
- o timing of capital expenditures in anticipation of future orders;
- o changes in prices of our packaging and testing services;
- o volume of orders relative to our packaging and testing capacity;
- o our ability to design and produce advanced and cost-competitive interconnect materials;
- o our ability to obtain adequate packaging and testing equipment on a timely basis;
- o changes in costs and availability of raw materials, equipment and labor; and
- o earthquakes, drought, epidemics and other natural disasters, as well as industrial and other incidents such as fires and power outages.

Due to the factors listed above, our future operating results or growth rates may be below the expectations of research analysts and investors. If so, the market price of the common shares and the ADSs, and thus the market value of your investment, may fall.

If we are not successful in developing and enhancing our in-house interconnect materials capabilities, our margins and profitability may be adversely affected.

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We expect that interconnect materials will become an increasingly important value-added component of the semiconductor packaging business as technology migrates from the traditional wirebonding process towards the flip-chip wafer bumping process and interconnect materials such as advanced substrates represent a higher percentage of the cost of the packaging process. As a result, we expect that we will need to offer more advanced interconnect materials designs and production processes in order to respond to competitive industry conditions and customer requirements. In particular, our competitive position will depend to a significant extent on our ability to design and produce interconnect materials that are comparable to or better than those produced by independent suppliers and others. Many of these independent suppliers have dedicated greater resources than we have for the research and development and design and production of interconnect materials. In addition, we may not be able to acquire the technology and personnel that would enable us to further develop our in-house expertise and enhance our design and production capabilities. We intend to enhance our interconnect materials capabilities through our merger with ASE Material and our joint venture with Compeq Manufacturing Co. Ltd., or Compeq. For more information on the merger, see "Item 7. Major Shareholders and Related Party Transactions--Related Party Transactions". For more information on the joint venture, see "Item 4. Information on the Company--History and Development of the Company--Joint Venture with Compeq Manufacturing Co. Ltd." If we are unable to maintain and enhance our in-

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house interconnect materials expertise to offer advanced interconnect materials that meet the requirements of our customers, we may become less competitive and our margins and profitability may suffer as a result.

If any of our acquisition of NEC's packaging and testing business or our joint venture with Compeq or our merger with ASE Chung Li and ASE Material does not result in successful integration with our operations or is otherwise not successful, we may not be able to realize the anticipated benefits of such transactions and our business prospects and profitability may be adversely affected.

On February 3, 2004, we and J&R Holding Limited, our wholly-owned subsidiary, entered into a share sale and purchase agreement with NEC Electronics Corporation, or NEC, and NEC Yamagata in connection with the acquisition of the semiconductor packaging and testing business of NEC Yamagata, a wholly-owned subsidiary of NEC. Pursuant to the terms and conditions of the agreement, the packaging and testing business of NEC Yamagata was transferred to a newly established company named ASE Japan Co., Ltd., or ASE Japan, and all of the issued and outstanding shares of ASE Japan were purchased by J&R Holding Limited. The acquisition was completed on May 31, 2004. The acquisition of the packaging and testing business of NEC Yamagata involves certain risks, including: integration and management of the acquired business; retention of select management personnel; unforeseen difficulties and liabilities of the acquired business; and diversion of our management's attention from other business concerns. These risks may adversely affect our short-term results of operations as we integrate and operate the acquired business.

On October 28, 2003, we entered into a joint venture agreement with Compeq to establish ASE-Compeq Technologies, Inc. This joint venture is intended to provide us with access to Compeq's production capabilities and expertise in advanced substrates and has been approved by the ROC Fair Trade Commission. Pursuant to the joint venture agreement, either party can terminate the joint venture at any time with 90 days' prior written notice. The success of our joint

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venture depends on a number of factors, including the ability of Compeq to meet the design and production requirements of the customers of the joint venture, the ability of the management of the two companies to work effectively together and the effectiveness of the sales and marketing strategy of ASE-Compeq Technologies, Inc. If the joint venture with Compeq is not successful, and we are not able to enter into a similar joint venture, or otherwise obtain access to similar capacity, expertise and capabilities, our interconnect materials design and production capability may be adversely affected and we may not be able to meet our customers' demand for advanced interconnect materials, which could have an adverse effect on our profitability.

On August 1, 2004, ASE Chung Li and ASE Material merged with and into us pursuant to a merger agreement dated October 28, 2003. We are the surviving corporation. Upon the completion of the merger, all of the assets and liabilities of ASE Chung Li and ASE Material are owned and have been assumed by us, and the operations of ASE Chung Li and ASE Material have been integrated with the operations of us. The merger is intended to enhance our ability to provide to our customers turnkey packaging and testing services and turnkey services that incorporate interconnect materials, increase our economies of scale, improve our operating efficiency and simplify our corporate structure. The continued success of the merger will depend on a number of factors, including our ability to integrate the operations of ASE Chung Li and ASE Material with our own and our retention of select management personnel. If we are not successful in integrating the operations of the merged companies, we may not be able to realize the anticipated benefits of the merger and our business prospects and profitability may be adversely affected.

Due to our high percentage of fixed costs, we will be unable to maintain our gross margin at past levels if we are unable to achieve relatively high capacity utilization rates.

Our operations, in particular our testing operations, are characterized by relatively high fixed costs. We expect to continue to incur substantial depreciation and other expenses as a result of our previous acquisitions of packaging and testing machinery and equipment and facilities. Our profitability depends not only on the pricing levels for our services, but also on utilization rates for our packaging and testing machinery and equipment, commonly referred to as "capacity utilization rates". In particular, increases or decreases in our capacity utilization rates can significantly affect gross margins since the unit cost of packaging and testing services generally decreases as fixed costs are allocated over a larger number of units. In periods of low demand, we experience relatively low capacity utilization rates in our operations, which leads to reduced margins. During 2001, we experienced lower than anticipated utilization rates in our operations due to a significant decline in worldwide demand for our packaging and testing services, which resulted in reduced margins during that period. Although our capacity utilization rates have

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improved recently, we cannot assure you that we will be able to maintain or surpass our past gross margin levels if we cannot consistently achieve or maintain relatively high capacity utilization rates.

If we are unable to manage our expansion effectively, our growth prospects may be limited and our future profitability may be affected.

We have significantly expanded our packaging and testing operations in recent years, and expect to continue to expand our operations in the future, including the expansion of our interconnect materials operations. In particular,

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we intend to provide total solutions for the packaging and testing of semiconductors in order to attract new customers and broaden our product range to include products packaged and tested for a variety of end-use applications. In the past, we have expanded through both internal growth and the acquisition of new operations. Rapid expansion puts strain on our managerial, technical, financial, operational and other resources. As a result of our expansion, we have implemented and will continue to need to implement additional operational and financial controls and hire and train additional personnel. Any failure to manage our growth effectively could lead to inefficiencies and redundancies and result in reduced growth prospects and profitability.

Because of the highly cyclical nature of our industry, our capital requirements are difficult to plan. If we cannot obtain additional capital when we need it, our growth prospects and future profitability may be adversely affected.

Our capital requirements are difficult to plan in our highly cyclical and rapidly changing industry. We will need capital to fund the expansion of our facilities as well as research and development activities in order to remain competitive. We believe that our existing cash and cash equivalents, short-term investments, expected cash flow from operations and existing credit lines under our short-term loan facilities will be sufficient to meet our capital expenditures, working capital, cash obligations under our existing debt and lease arrangements, and other requirements for at least the next twelve months. However, future capacity expansions or market or other developments may cause us to require additional funds. Our ability to obtain external financing in the future is subject to a variety of uncertainties, including:

- o our future financial condition, results of operations and cash flows;
- o general market conditions for financing activities by semiconductor companies; and
- o economic, political and other conditions in Taiwan and elsewhere.

If we are unable to obtain funding in a timely manner or on acceptable terms, our growth prospects and future profitability may decline.

Restrictive covenants and broad default provisions in our existing debt agreements may materially restrict our operations as well as adversely affect our liquidity, financial condition and results of operations.

We are a party to numerous loan and other agreements relating to the incurrence of debt, many of which include restrictive covenants and broad default provisions. In general, covenants in the agreements governing our existing debt, and debt we may incur in the future, may materially restrict our operations, including our ability to incur debt, pay dividends, make certain investments and payments and encumber or dispose of assets. In the event of a prolonged downturn in the demand for our services as a result of a downturn in the worldwide semiconductor industry or otherwise, we cannot assure you that we will be able to remain in compliance with our financial covenants which, as a result, may lead to a default. Furthermore, a default under one agreement by us or one of our subsidiaries may also trigger cross-defaults under other agreements. In the event of default, we may not be able to cure the default or obtain a waiver on a timely basis, and our operations would be significantly disrupted or harmed and our liquidity would be adversely affected. An event of default under any agreement governing our existing or future debt, if not cured or waived, would have a material adverse effect on our liquidity, financial condition and results of operations.

We have on occasion failed to comply with certain financial covenants in some of our loan agreements. Such non-compliance may also have, through broadly

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worded cross-default provisions, resulted in default under some of the agreements governing our other existing debt. For example, in 2004, we increased our borrowings in order to

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fund increases in our capital expenditure, which resulted in our failure to comply with certain debt ratios. We are in the process of obtaining waivers from the relevant lenders relating to such non-compliance and, while we believe that we will be able to obtain such waivers, we can provide no guarantee that we will be able to do so. Such non-compliance has not had any significant effect on our ability to repay or refinance amounts due in respect of our existing debt. For these and other reasons, including our financial condition and our relationship with our lenders, no lender has to date sought and we do not believe that any of our lenders would seek to declare a default or enforce remedies in respect of our existing debt, as a result of cross-default provisions or otherwise, although we cannot provide any assurance in this regard.

We depend on select personnel and could be affected by the loss of their services.

We depend on the continued service of our executive officers and skilled technical and other personnel. Our business could suffer if we lose the services of any of these personnel and cannot adequately replace them. Although some of these management personnel have entered into employment agreements with us, they may nevertheless leave before the expiration of these agreements. We are not insured against the loss of any of our personnel. In addition, we may be required to increase substantially the number of these employees in connection with our expansion plans, and there is intense competition for their services in the semiconductor industry. We may not be able to either retain our present personnel or attract additional qualified personnel as and when needed. In addition, we may need to increase employee compensation levels in order to attract and retain our existing officers and employees and the additional personnel that we expect to require. Furthermore, a portion of the workforce at our facilities in Taiwan are foreign workers employed by us under work permits which are subject to government regulations on renewal and other terms. Consequently, our business could also suffer if the Taiwan regulations relating to the import of foreign workers were to become significantly more restrictive or if we are otherwise unable to attract or retain these workers at a reasonable cost.

If we fail to maintain an effective system of internal controls, we may not be able to accurately report our financial results or prevent fraud.

The United States Securities and Exchange Commission, or the SEC, as required by Section 404 of the Sarbanes-Oxley Act of 2002, adopted rules requiring every public company to include a management report on such company's internal controls over financial reporting in its annual report, which contains management's assessment of the effectiveness of the company's internal controls over financial reporting. In addition, an independent registered public accounting firm must attest to and report on management's assessment of the effectiveness of the company's internal controls over financial reporting. These requirements will first apply to our annual report on Form 20-F for the fiscal year ending December 31, 2006. Our management may conclude that our internal controls over our financial reporting are not effective. Moreover, even if our management concludes that our internal controls over financial reporting are effective, our independent registered public accounting firm may still decline to attest to our management's assessment or may issue a report that is qualified

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if it is not satisfied with our controls or the level at which our controls are documented, designed, operated or reviewed, or if it interprets the relevant requirements differently from us. Furthermore, during the course of the evaluation, documentation and attestation, we may identify deficiencies that we may not be able to remedy in time to meet the deadline imposed by the Sarbanes-Oxley Act for compliance with the requirements of Section 404. If we fail to achieve and maintain the adequacy of our internal controls, we may not be able to conclude that we have effective internal controls, on an ongoing basis, over financial reporting in accordance with the Sarbanes-Oxley Act. Moreover, effective internal controls, particularly those related to revenue recognition, are necessary for us to produce reliable financial reports and are important to help prevent fraud. As a result, our failure to achieve and maintain effective internal controls over financial reporting could result in the loss of investor confidence in the reliability of our financial statements, which in turn could harm our business and negatively impact the trading price of our ADSs. Furthermore, we anticipate that we will incur considerable costs and use significant management time and other resources in an effort to comply with Section 404 and other requirements of the Sarbanes-Oxley Act.

If we are unable to obtain additional packaging and testing equipment or facilities in a timely manner and at a reasonable cost, our competitiveness and future profitability may be adversely affected.

The semiconductor packaging and testing business is capital intensive and requires significant investment in expensive equipment manufactured by a limited number of suppliers. The market for semiconductor packaging and

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testing equipment is characterized, from time to time, by intense demand, limited supply and long delivery cycles. Our operations and expansion plans depend on our ability to obtain a significant amount of such equipment from a limited number of suppliers, including, in the case of wire bonders, Kulicke & Soffa Industries Inc., and in the case of testers, Agilent Technologies, Inc., Credence Systems Corporation, LTX Corporation and Teradyne, Inc. We have no binding supply agreements with any of our suppliers and acquire our packaging and testing equipment on a purchase order basis, which exposes us to changing market conditions and other substantial risks. For example, shortages of capital equipment could result in an increase in the price of equipment and longer delivery times. Semiconductor packaging and testing also requires us to operate sizeable facilities. If we are unable to obtain equipment or facilities in a timely manner, we may be unable to fulfill our customers' orders, which could adversely affect our growth prospects as well as financial condition and results of operations. See "Item 4. Information on the Company--Business Overview--Equipment".

Fluctuations in exchange rates could result in foreign exchange losses.

Currently, the majority of our revenues from packaging and testing services are denominated in U.S. dollars and NT dollars. Our costs of revenues and operating expenses associated with packaging and testing services, on the other hand, are incurred in several currencies, primarily NT dollars and U.S. dollars, as well as, to a lesser extent, Malaysian ringgit, Korean won and Japanese yen. In addition, a substantial portion of our capital expenditures, primarily for the purchase of packaging and testing equipment, has been, and is expected to continue to be, denominated in U.S. dollars, with much of the remainder in Japanese yen. Fluctuations in exchange rates, primarily among the U.S. dollar, the NT dollar and the Japanese yen, will affect our costs and operating margins.

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In addition, these fluctuations could result in exchange losses and increased costs in NT dollar and other local currency terms. Despite hedging and mitigating techniques implemented by us, fluctuations in exchange rates have affected, and may continue to affect, our financial condition and results of operations. We incurred a foreign exchange loss of NT\$146.2 million (US\$4.6 million), NT\$386.8 million and NT\$397.9 million in 2004, 2003 and 2002, respectively. See "Item 11. Quantitative and Qualitative Disclosures about Market Risk--Market Risk--Foreign Currency Exchange Rate Risk".

The loss of a large customer or disruption of our strategic alliance or other commercial arrangements with semiconductor foundries and providers of other complementary semiconductor manufacturing services may result in a decline in our revenues and profitability.

Although we have over 200 customers, we have derived and expect to continue to derive a large portion of our revenues from a small group of customers during any particular period due in part to the concentration of market share in the semiconductor industry. Our five largest customers together accounted for approximately 34.7%, 34.8% and 39.6% of our net revenues in 2004, 2003 and 2002, respectively. Other than Motorola, Inc., no other customer accounted for more than 10% of our net revenues in 2003 or 2002. In 2004, no customer accounted for more than 10% of our net revenues. The demand for our services from each customer is directly dependent upon that customer's level of business activity, which could vary significantly from year to year. The loss of a large customer may adversely affect our revenues and profitability. Our key customers typically operate in the cyclical semiconductor business and, in the past, have varied, and may vary in the future, order levels significantly from period to period. Some of these companies are relatively small, have limited operating histories and financial resources, and are highly exposed to the cyclicity of the industry. We cannot assure you that these customers or any other customers will continue to place orders with us in the future at the same levels as in past periods. The loss of one or more of our significant customers, or reduced orders by any one of them, and our inability to replace these customers or make up for such orders could reduce our profitability. In addition, we have in the past reduced, and may in the future be requested to reduce, our prices to limit the level of order cancellations. Any price reduction would likely reduce our margins and profitability.

Our strategic alliance with TSMC, the world's largest dedicated semiconductor foundry, as well as our other commercial arrangements with providers of other complementary semiconductor manufacturing services, enable us to offer total semiconductor manufacturing solutions to our customers. This strategic alliance and any of our other commercial arrangements may be terminated at any time. A termination of this strategic alliance and other commercial arrangements, and our failure to enter into substantially similar alliances and commercial arrangements, may adversely affect our competitiveness and our revenues and profitability.

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We depend on our agent for a portion of our sales in North America and Europe. Any serious disruption in our relationship with our agent, or substantial loss in its effectiveness, could significantly reduce our revenues and profitability.

We depend on a non-exclusive agent, Gardex International Limited, or Gardex, for a portion of our sales service in North America and Europe. Gardex helps us identify customers and, within parameters set by us, helps us negotiate

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price, delivery and other terms with our customers. Purchase orders are placed directly with us by our customers.

Currently, Gardex performs services only for us and our subsidiaries but Gardex is not owned or controlled by us. Gardex is free to perform sales and support services for others, including our competitors. While the purchase of ASE (U.S.) Inc. by our subsidiary J&R Holding Limited has significantly decreased our dependence upon non-exclusive agents for sales and customer service in North America and Europe, we may not be able to develop sufficient capabilities internally on a timely basis or to find an adequate replacement for Gardex should our relationship with Gardex change unexpectedly. Any serious disruption in our relationship with Gardex or substantial loss in Gardex's effectiveness in performing its sales functions could significantly reduce our revenues and profitability. See "Item 4. Information on the Company--Business Overview--Sales and Marketing--Sales and Customer Service Agents".

Our revenues and profitability may decline if we are unable to obtain adequate supplies of raw materials in a timely manner and at a reasonable price.

Our packaging operations require that we obtain adequate supplies of raw materials on a timely basis. Shortages in the supply of raw materials experienced by the semiconductor industry have in the past resulted in occasional price increases and delivery delays. For example, in 1999 and the first half of 2000, the industry experienced a shortage in the supply of advanced substrates used in ball grid array, or BGA, packaging. Raw materials such as advanced substrates are prone to supply shortages since such materials are produced by a limited number of suppliers such as IBIDEN Co., Ltd., Japan Circuit Industrial Co., Ltd. and Phoenix Precision Technology Corporation. Our merger with ASE Material and our joint venture with Compeq to establish ASE-Compeq Technologies, Inc. are expected to help improve our ability to obtain advanced substrates on a timely basis and at a reasonable cost. However, we do not expect that our internal substrates operations, even after the ASE Material merger and the formation of ASE-Compeq Technologies, Inc., to be able to meet all of our raw materials requirements. Consequently, we will remain dependent on market supply and demand for our raw materials. Recently, we have experienced a tightening in the market supply of raw materials, and the fire in May 2005 at our facilities in Chung Li, Taiwan has damaged a substantial portion of our production capacity of interconnect materials for use in our packaging operations. See "Item 8. Financial Information--Significant Changes" for a description of the fire. We cannot guarantee that we will not experience shortages in the near future or that we will be able to obtain adequate supplies of raw materials in a timely manner and at a reasonable price. Our revenues and net income could decline if we were unable to obtain adequate supplies of high quality raw materials in a timely manner or if there were significant increases in the costs of raw materials that we could not pass on to our customers. See "Item 5. Operating and Financial Review and Prospects--Operating Results and Trend Information--Raw Material Costs".

Any environmental claims or failure to comply with any present or future environmental regulations, as well as any fire or other industrial accident, may require us to spend additional funds and may materially and adversely affect our financial condition and results of operations.

We are subject to a variety of laws and regulations relating to the use, storage, discharge and disposal of chemical by-products of, and water used in, our packaging and interconnect materials production processes. Although we have not suffered material environmental claims in the past, the failure to comply with any present or future regulations could result in the assessment of damages or imposition of fines against us, suspension of production or a cessation of our operations. New regulations could require us to acquire costly equipment or to incur other significant expenses that we may not be able to pass on to our

customers. For example, as a result of new restrictions in the European Union governing the use of hazardous substances, we expect that our customers will increasingly request that the materials used in our packaging processes be compliant with new European Union regulations, which will likely increase our raw material costs as a result. See "Item 4. Information on the

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Company--Business Overview--Raw Materials and Suppliers--Packaging". Additionally, any failure on our part to control the use, or adequately restrict the discharge, of hazardous substances could subject us to future liabilities that may have a material adverse effect on our financial condition and results of operations.

Our controlling shareholders may take actions that are not in, or may conflict with, our public shareholders' best interest.

Members of the Chang family own, directly or indirectly, a controlling interest in our outstanding common shares. See "Item 7. Major Shareholders and Related Party Transactions--Major Shareholders". Accordingly, these shareholders will continue to have the ability to exercise a controlling influence over our business, including matters relating to:

- o our management and policies;
- o the timing and distribution of dividends; and
- o the election of our directors and supervisors.

Members of the Chang family may take actions that you may not agree with or that are not in our or our public shareholders' best interests.

We are an ROC company and, because the rights of shareholders under ROC law differ from those under U.S. law and the laws of certain other countries, you may have difficulty protecting your shareholder rights.

Our corporate affairs are governed by our Articles of Incorporation and by the laws governing corporations incorporated in the ROC. The rights of shareholders and the responsibilities of management and the members of the board of directors under ROC law are different from those applicable to a corporation incorporated in the United States and certain other countries. As a result, public shareholders of ROC companies may have more difficulty in protecting their interest in connection with actions taken by management or members of the board of directors than they would as public shareholders of a corporation in the United States or certain other countries.

Any required impairment charges may have a material adverse effect on our financial condition and results of operations.

Under currently effective accounting principles, we are required to evaluate our equipment, goodwill and other indefinite-lived assets for possible impairment whenever there is an indication of impairment. If certain criteria are met, we are required to record an impairment charge. As a result of an impairment test performed for 2002, we took an impairment loss of NT\$1,225.6 million for equipment held by ASE Test for the year ended December 31, 2002. No impairment charges with regards to our equipment were recorded for the years ended December 31, 2003 and 2004. We can give no assurance that additional impairment charges will not be required in periods subsequent to December 31,

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2004.

As a result of standards under U.S. GAAP that became effective on January 1, 2002, we are no longer permitted to amortize remaining goodwill. Starting from January 2002, all goodwill must be tested at least annually for impairment under U.S. GAAP. As a result of an impairment test performed for 2002 under U.S. GAAP, we wrote off the remaining goodwill of NT\$2,213.0 million associated with our purchase of shares of ASE Test for the year ended December 31, 2002. No impairment charges relating to our goodwill were required to be recognized for the year ended December 31, 2003. We recognized an impairment charge in 2004 under U.S. GAAP of NT\$1,337.7 million (US\$42.1 million) for goodwill relating to our purchase of shares of ISE Labs. As of December 31, 2004, 2003 and 2002, goodwill under U.S. GAAP amounted to NT\$3,330.9 million (US\$104.9 million), NT\$3,100.7 million and NT\$3,227.0 million, respectively. Any goodwill impairment charge required under U.S. GAAP may have a material adverse effect on our financial condition and results of operations on a U.S. GAAP reconciled basis.

For the year ended December 31, 2004, we adopted ROC SFAS No. 35, "Impairment of Assets". In addition to yearly amortization, under ROC SFAS No. 35, goodwill is also evaluated at least annually to determine if it is impaired. As a result of our annual impairment review, under ROC GAAP, we recognized an impairment charge of NT\$1,950.1 million (US\$61.4 million) in 2004 for goodwill relating to our purchase of shares of ASE Test and ISE

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Labs. Under ROC GAAP, total goodwill amortization amounted to NT\$877.6 million (US\$27.6 million), NT\$819.3 million and NT\$815.6 million in 2004, 2003 and 2002, respectively. Any goodwill impairment charge required under ROC GAAP may have a material adverse effect on our financial condition and results of operations.

We are unable to estimate the extent and timing of goodwill impairment charges for future periods. The determination of an impairment charge at any given time is based significantly on our expected results of operations over a number of years subsequent to that time. As a result, an impairment charge is more likely to occur during a period in which our operating results and outlook are otherwise already depressed.

Terrorist attacks, such as the attacks that occurred on September 11, 2001, military action in Iraq and general instability in the Middle East may adversely affect the markets in which we operate, our operations and our profitability.

The attacks of September 11, 2001 and subsequent events, including military action in Iraq, have caused volatility in the world financial markets and have led, and may continue to lead to, further armed hostilities, prolonged military action in Iraq, or further acts of terrorism in the United States or abroad, which could cause further instability in financial markets. These developments could have an adverse impact on, among other things, our ability to expand the market for our services, obtain financing as needed and enter into strategic relationships, and, depending on their magnitude, could have a material adverse effect on our business, financial condition, results of operations or cash flows.

Risks Relating to Taiwan, ROC

Strained relations between the ROC and the PRC could negatively affect our business and the market value of your investment.

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Our principal executive offices and our principal packaging and testing facilities are located in Taiwan and approximately 69.8%, 77.0% and 77.4% of our net revenues in 2004, 2003 and 2002, respectively, were derived from our operations in Taiwan. The ROC has a unique international political status. The government of the PRC asserts sovereignty over all of China, including Taiwan, and does not recognize the legitimacy of the ROC government. Although significant economic and cultural relations have been established in recent years between the ROC and the PRC, relations have often been strained and the government of the PRC has indicated that it may use military force to gain control over Taiwan in some circumstances, such as the declaration of independence by the ROC. Relations between the ROC and the PRC have been particularly strained in recent years. On March 14, 2005, the PRC adopted an anti-secession law which states that the PRC may use non-peaceful means and other necessary measures if Taiwan formally declares its independence or if the PRC determines that there is no possibility for a peaceful reunification. Political uncertainty could adversely affect the prices of our common shares and ADSs. Relations between the ROC and the PRC and other factors affecting the political or economic conditions in Taiwan could have a material adverse effect on our financial condition and results of operations, as well as the market price and the liquidity of our common shares and ADSs.

Currently, we manufacture interconnect materials as well as provide module assembly services from time to time in the PRC through our wholly-owned subsidiary, ASE Shanghai. See "Item 4. Information on the Company--Organizational Structure--Our Consolidated Subsidiaries--ASE Shanghai". The ROC government currently restricts certain types of investments by ROC companies, including ourselves, in the PRC, and such restrictions include limitations on investments in facilities for the packaging and testing of semiconductors. We do not know when or if such laws and policies governing investment in the PRC will be further amended, and we cannot assure you that such ROC investment laws and policies will permit us to make further investments in the PRC in the future that we consider beneficial to us. Our growth prospects and profitability may be adversely affected if we are restricted from making certain additional investments in the PRC and are not able to fully capitalize on the growth of the semiconductor industry in the PRC.

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As a substantial portion of our business and operations is located in Taiwan, we are vulnerable to earthquakes, typhoons, drought and other natural disasters, as well as power outages and other industrial incidents, which could severely disrupt the normal operation of our business and adversely affect our results of operations.

Taiwan is susceptible to earthquakes and has experienced severe earthquakes which caused significant property damage and loss of life, particularly in the central and eastern regions of Taiwan. Earthquakes have damaged production facilities and adversely affected the operations of many companies involved in the semiconductor and other industries. We have never experienced structural damage to our facilities and damage to our machinery and equipment as a result of these earthquakes. In the past, however, we have experienced interruptions to our production schedule primarily as a result of power outages caused by earthquakes.

Taiwan is also susceptible to typhoons, which may cause damage and business interruptions to companies with facilities located in Taiwan. In 2001, Taiwan experienced severe damage from typhoons, including a typhoon on September 16

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that caused over 100 deaths, severe flooding and extensive damage to property and businesses. In the third quarter of 2004, a typhoon caused a partial interruption for approximately two weeks in our water supply at ASE Chung Li's substrate operations.

We are dependent upon water for our packaging and substrates operations and a drought could interrupt such operations. In May 2002, Taiwan experienced a severe drought. Although we were not affected by the May 2002 drought directly, a drought may interrupt the manufacturing process of the foundries located in Taiwan, in turn disrupting some of our customers' production, which could result in a decline in the demand for our services. In addition, the supply of electrical power in Taiwan, which is primarily provided by Taiwan Power Company, the state-owned electric utility, is susceptible to disruption that could be prolonged and frequent, caused by overload as a result of high demand or other reasons.

Our production facilities as well as many of our suppliers and customers and providers of complementary semiconductor manufacturing services, including foundries, are located in Taiwan. If our customers are affected by an earthquake, a typhoon, a drought or other natural disasters, or power outage or other industrial incidents, it could result in a decline in the demand for our packaging and testing services. If our suppliers and providers of complementary semiconductor manufacturing services are affected, our production schedule could be interrupted or delayed. As a result, a major earthquake, typhoon, drought, or other natural disasters in Taiwan, or power outage or other industrial incidents could severely disrupt the normal operation of business and have a material adverse effect on our financial condition and results of operations.

Any recurrence of SARS or outbreak of avian flu or other contagious disease may have an adverse effect on the economies of certain Asian countries and may adversely affect our results of operations.

In the first half of 2003, the PRC, Hong Kong, Taiwan, Singapore, Vietnam and certain other countries encountered an outbreak of severe acute respiratory syndrome, or SARS, which is a highly contagious form of atypical pneumonia. The SARS outbreak had an adverse effect on our results of operations for the first half of 2003, primarily due to the lower than expected demand for our packaging and testing services that resulted from the adverse effect of such SARS outbreak on the level of economic activity in the affected regions. Additionally, the World Health Organization, or WHO, reported in January 2005 that "during 2004, large parts of Asia experienced unprecedented outbreaks of highly pathogenic avian influenza, caused by the H5N1 virus," which moved the world closer than any time since 1968 to an influenza pandemic "with high morbidity, excess mortality, and social and economic disruption." There is no guarantee that an outbreak of SARS, avian flu or other contagious disease will not occur again in the future and that any future outbreak of SARS, avian flu or other contagious disease or the measures taken by the governments of the ROC, Hong Kong, the PRC or other countries against such potential outbreaks, will not seriously interrupt our production operations or those of our suppliers and customers, which may have a material adverse effect on our results of operations. The perception that an outbreak of SARS, avian flu or other contagious disease may occur again may have an adverse effect on the economic conditions of certain countries in Asia.

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The market for the common shares and the ADSs may not be liquid.

Active, liquid trading markets generally result in lower price volatility and more efficient execution of buy and sell orders for investors, compared to less active and less liquid markets. Liquidity of a securities market is often a function of the volume of the underlying shares that are publicly held by unrelated parties.

There has been no trading market for the common shares outside the ROC and the only trading market for the common shares will be the Taiwan Stock Exchange. The outstanding ADSs are listed on the New York Stock Exchange. There is no assurance that the market for the common shares or the ADSs will be active or liquid.

Although ADS holders are entitled to withdraw the common shares underlying the ADSs from the depository at any time, ROC law requires that the common shares be held in an account in the ROC or sold for the benefit of the holder on the Taiwan Stock Exchange. In connection with any withdrawal of common shares from our ADS facility, the ADSs evidencing these common shares will be cancelled. Unless additional ADSs are issued, the effect of withdrawals will be to reduce the number of outstanding ADSs. If a significant number of withdrawals are effected, the liquidity of our ADSs will be substantially reduced. We cannot assure you that the ADS depository will be able to arrange for a sale of deposited shares in a timely manner or at a specified price, particularly during periods of illiquidity or volatility.

If a non-ROC holder of ADSs withdraws common shares, such holder of ADSs will be required to appoint a tax guarantor, local agent and custodian bank in the ROC and register with the Taiwan Stock Exchange in order to buy and sell securities on the Taiwan Stock Exchange.

When a non-ROC holder of ADSs elects to withdraw common shares represented by ADSs, such holder of the ADSs will be required to appoint an agent for filing tax returns and making tax payments, or a tax guarantor, in the ROC. The tax guarantor will be required to meet the qualifications set by the ROC Ministry of Finance and will act as the guarantor of the withdrawing holder's tax payment obligations. Evidence of the appointment of a tax guarantor, the approval of such appointment by the ROC tax authorities and tax clearance certificates or evidentiary documents issued by such tax guarantor may be required as conditions to such holder repatriating the profits derived from the sale of common shares. We cannot assure you that a withdrawing holder will be able to appoint and obtain approval for a tax guarantor in a timely manner.

In addition, under current ROC law, such withdrawing holder is required to appoint a local agent in the ROC to, among other things, open a bank account, open an account with the Taiwan Securities Central Depository Co., Ltd., open a securities trading account with a local securities brokerage firm, pay taxes, remit funds and exercise such holder's rights as a shareholder. Furthermore, such withdrawing holder must appoint a local bank to act as custodian for confirmation and settlement of trades, safekeeping of securities and cash proceeds and reporting and declaration of information. Without satisfying these requirements, non-ROC holders of ADSs that withdraw and hold the common shares represented thereby would not be able to hold or otherwise transfer the common shares on the Taiwan Stock Exchange or otherwise.

In addition, non-ROC holders of common shares will be required to register with the Taiwan Stock Exchange in order to buy and sell securities on the Taiwan Stock Exchange prior to withdrawing common shares.

The market value of your investment may fluctuate due to the volatility of the ROC securities market.

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The ROC securities market is smaller and more volatile than the securities markets in the United States and in many European countries. The Taiwan Stock Exchange has experienced substantial fluctuations in the prices and volumes of sales of listed securities and there are currently limits on the range of daily price movements on the Taiwan Stock Exchange. The Taiwan Stock Exchange Index peaked at 12,495.3 in February 1990, and subsequently fell to a low of 2,560.5 in October 1990. On April 29, 2005, the Taiwan Stock Exchange Index closed at 5,818.1. The Taiwan Stock Exchange has experienced problems such as market manipulation, insider trading and payment defaults. The recurrence of these or similar problems could have a material adverse effect on the market price and

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liquidity of the securities of ROC companies, including the common shares and the ADSs, in both the domestic and the international markets.

Holders of common shares and ADSs may incur dilution as a result of the practice among ROC technology companies of issuing stock bonuses and stock options to employees.

Similar to other ROC technology companies, we issue bonuses from time to time in the form of common shares valued at par under our employee stock bonus plan. In 2004, we granted an aggregate of 15,427,203 common shares as stock bonuses with an aggregate value of NT\$154.3 million (US\$4.9 million). In addition, under the revised ROC Company Law we may, upon approval from our board of directors and the ROC Securities and Futures Bureau (formerly known as the Securities and Futures Commission), establish employee stock option plans. We currently maintain two employee stock option plans pursuant to which our full-time employees and the full-time employees of our domestic and foreign subsidiaries are eligible to receive stock option grants. As of December 31, 2004, 284,885,000 options have been granted. See "Item 6. Directors, Senior Management and Employees--Compensation--ASE Inc. Employee Bonus and Stock Option Plans". The issuance of our common shares pursuant to stock bonuses or stock options may have a dilutive effect on the holders of outstanding common shares and ADSs.

Restrictions on the ability to deposit our common shares into our ADS facility may adversely affect the liquidity and price of our ADSs.

The ability to deposit common shares into our ADS facility is restricted by ROC law. A significant number of withdrawals of common shares underlying our ADSs would reduce the liquidity of the ADSs by reducing the number of ADSs outstanding. As a result, the prevailing market price of our ADSs may differ from the prevailing market price of our common shares on the Taiwan Stock Exchange. Under current ROC law, no person or entity, including you and us, may deposit our common shares in our ADS facility without specific approval of the ROC Securities and Futures Bureau, unless:

- (1) we pay stock dividends on our common shares;
- (2) we make a free distribution of common shares;
- (3) holders of ADSs exercise preemptive rights in the event of capital increases for cash; or
- (4) to the extent permitted under the deposit agreement and the relevant custody agreement, investors purchase our common shares, directly or through the depositary, on the Taiwan Stock Exchange, and deliver our

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common shares to the custodian for deposit into our ADS facility, or our existing shareholders deliver our common shares to the custodian for deposit into our ADS facility.

With respect to item (4) above, the depositary may issue ADSs against the deposit of those common shares only if the total number of ADSs outstanding following the deposit will not exceed the number of ADSs previously approved by the ROC Securities and Futures Bureau, plus any ADSs issued pursuant to the events described in subparagraphs (1), (2) and (3) above.

In addition, in the case of a deposit of our common shares requested under item (4) above, the depositary will refuse to accept deposit of our common shares if such deposit is not permitted under any legal, regulatory or other restrictions notified by us to the depositary from time to time, which restrictions may include blackout periods during which deposits may not be made, minimum and maximum amounts and frequency of deposits.

The depositary will not offer holders of ADSs preemptive rights unless the distribution of both the rights and the underlying common shares to our ADS holders are either registered under the Securities Act, or exempt from registration under the Securities Act.

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Holders of ADSs will not have the same voting rights as our shareholders, which may affect the value of their ADSs.

The voting rights of a holder of ADSs as to the common shares represented by its ADSs are governed by the deposit agreement. Holders of ADSs will not be able to exercise voting rights on an individual basis. If holders representing at least 51% of the ADSs outstanding at the relevant record date instruct the depositary to vote in the same manner regarding a resolution, including the election of directors and supervisors, the depositary will cause all common shares represented by the ADSs to be voted in that manner. If the depositary does not receive timely instructions representing at least 51% of the ADSs outstanding at the relevant record date to vote in the same manner for any resolution, including the election of directors and supervisors, holders of ADSs will be deemed to have instructed the depositary or its nominee to authorize all the common shares represented by the ADSs to be voted at the discretion of our chairman or his designee, which may not be in the interest of holders of ADSs.

The right of holders of ADSs to participate in our rights offerings is limited, which could cause dilution to your holdings.

We may from time to time distribute rights to our shareholders, including rights to acquire our securities. Under the deposit agreement, the depositary will not offer holders of ADSs those rights unless both the distribution of the rights and the underlying securities to all our ADS holders are either registered under the Securities Act or exempt from registration under the Securities Act. Although we may be eligible to take advantage of certain exemptions under the Securities Act available to certain foreign issuers for rights offerings, we can give no assurances that we will be able to establish an exemption from registration under the Securities Act, and we are under no obligation to file a registration statement for any of these rights. Accordingly, holders of ADSs may be unable to participate in our rights offerings and may experience dilution of their holdings.

If the depositary is unable to sell rights that are not exercised or not

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distributed or if the sale is not lawful or reasonably practicable, it will allow the rights to lapse, in which case holders of ADSs will receive no value for these rights.

Changes in exchange controls which restrict your ability to convert proceeds received from your ownership of ADSs may have an adverse effect on the value of your investment.

Under current ROC law, the depositary, without obtaining approvals from the Central Bank of China or any other governmental authority or agency of the ROC, may convert NT dollars into other currencies, including U.S. dollars, for:

- o the proceeds of the sale of common shares represented by ADSs or received as stock dividends from the common shares and deposited into the depositary receipt facility; and
- o any cash dividends or distributions received from the common shares.

In addition, the depositary may also convert into NT dollars incoming payments for purchases of common shares for deposit in the ADS facility against the creation of additional ADSs. The depositary may be required to obtain foreign exchange approval from the Central Bank of China on a payment-by-payment basis for conversion from NT dollars into foreign currencies of the proceeds from the sale of subscription rights for new common shares. Although it is expected that the Central Bank of China will grant this approval as a routine matter, we cannot assure you that in the future any approval will be obtained in a timely manner, or at all.

Under current ROC law, a holder of the ADSs, without obtaining further approval from the Central Bank of China, may convert from NT dollars into other currencies, including U.S. dollars, the following:

- o the proceeds of the sale of any underlying common shares withdrawn from the depositary receipt facility or received as a stock dividend that has been deposited into the depositary receipt facility; and
- o any cash dividends or distribution received from the common shares.

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However, such holder may be required to obtain foreign exchange approval from the Central Bank of China on a payment-by-payment basis for conversion from NT dollars into foreign currencies of the proceeds from the sale of subscription rights for new common shares. Although the Central Bank of China is generally expected to grant this approval as a routine matter, we cannot assure you that you will actually obtain this approval in a timely manner, or at all.

Under the ROC Foreign Exchange Control Law, the Executive Yuan of the ROC government may, without prior notice but subject to subsequent legislative approval, impose foreign exchange controls in the event of, among other things, a material change in international economic conditions. We cannot assure you that foreign exchange controls or other restrictions will not be introduced in the future.

The value of your investment may be reduced by possible future sales of common shares or ADSs by us or our shareholders.

While we are not aware of any plans by any major shareholders to dispose of

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significant numbers of common shares, we cannot assure you that one or more existing shareholders or owners of securities convertible or exchangeable into or exercisable for our common shares or ADSs will not dispose of significant numbers of common shares or ADSs. In addition, several of our subsidiaries and affiliates hold common shares, depository shares representing common shares and options to purchase common shares or ADSs. We or they may decide to sell those securities in the future. See "Item 7. Major Shareholders and Related Party Transactions--Major Shareholders" for a description of our significant shareholders and affiliates that hold our common shares.

On August 1, 2004, ASE Chung Li and ASE Material merged with and into ASE Inc. pursuant to a merger agreement dated October 28, 2003, with ASE Inc. as the surviving corporation. The merger was consummated by means of a share exchange pursuant to which the respective shareholders of ASE Chung Li and ASE Material, other than ourselves but including our subsidiaries ASE Test and ASE Test Taiwan, received our common shares in exchange for the common shares of each of ASE Chung Li and ASE Material. 282,315,437 common shares were issued in connection with the merger, representing approximately 7.9% of our outstanding shares as of October 28, 2003 before giving effect to such issuance. Of these shares, the 149,175,000 common shares issued to ASE Test, our consolidated subsidiary, are subject to certain transfer restrictions and are available for resale in accordance with the rules and regulations of the Taiwan Stock Exchange. See "Item 10. Additional Information--Articles of Incorporation--Transfer Restrictions--Common Shares Issued to Substantial Shareholders in Connection with a Merger". The 5,000,000 common shares issued to ASE Test Taiwan are not subject to transfer restrictions under the rules and regulations of the Taiwan Stock Exchange. In order to comply with Singapore law, trusts have been set up to hold and dispose of our shares issued to ASE Test and ASE Test Taiwan in connection with our merger with ASE Chung Li and ASE Material. See "Item 7. Major Shareholders and Related Party Transactions--Related Party Transactions".

We cannot predict the effect, if any, that future sales of common shares or ADSs, or the availability of common shares or ADSs for future sale, will have on the market price of the common shares or the ADSs prevailing from time to time. Sales of substantial numbers of common shares or ADSs in the public market, or the perception that such sales may occur, could depress the prevailing market prices of the common shares or the ADSs.

Item 4. Information on the Company

HISTORY AND DEVELOPMENT OF THE COMPANY

We were incorporated on March 23, 1984 as a company limited by shares under the ROC Company Law, with facilities in the Nantze Export Processing Zone located in Kaohsiung, Taiwan. We were listed on the Taiwan Stock Exchange in 1989. In 1990, we acquired ASE Test Taiwan, which provides our customers with testing services. In 1991, we established ASE Test Malaysia, which provides our customers with testing and packaging services. In 1997, we established ASE Material, which designs and produces interconnect materials. In 1997, we constructed a new facility in Kaohsiung, Taiwan for packaging services and established a research and development laboratory. Our principal executive offices are located at 26 Chin Third Road, Nantze Export Processing Zone, Nantze, Kaohsiung, Taiwan, ROC and our telephone number at the above address is (8867) 361-7131. Our agent for service

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10011, and our agent's telephone number is (212) 894-8940.

ASE Chung Li and ASE Korea

In July 1999, we purchased Motorola's Semiconductor Products Sector operations in Chung Li, Taiwan and Paju, South Korea for the packaging and testing of semiconductors with principally communications, consumer and automotive applications. We acquired substantially all of the assets of ASE Chung Li for a base price of US\$150.0 million in cash, consisting of an initial payment at closing and additional payments in installments contingent upon certain targets of revenue from packaging and testing services provided to Motorola being met. All such installments were paid by July 2004. We acquired 100% of the outstanding shares of ASE Korea for a base price of US\$140.0 million in cash, consisting of an initial payment, with the remainder payable over five years. In addition to the combined base price of US\$290.0 million, we also paid an aggregate of approximately US\$60.1 million in cash to purchase capital assets at both facilities which were acquired after January 1, 1999 and specified inventories and cash positions. Under the acquisition agreements, we acquired a 70.0% interest in each of the two businesses, and ASE Test acquired the remaining 30.0% interest. This division of the investment reflected in part our estimate of the relative packaging and testing values at the facilities.

ISE Labs

In May 1999, we acquired 70.0% of the outstanding shares of ISE Labs, a semiconductor testing company with its principal facilities located in Fremont, California at a purchase price of US\$100.1 million. We subsequently increased our holding to 100% through purchases made in April, July and November 2000 and in January 2002. The total price for our acquisition of 100% of the outstanding shares of ISE Labs amounted to US\$221.2 million.

Universal Scientific

From February through July of 1999, we purchased 22.6% of the outstanding shares of Universal Scientific for approximately NT\$3,532.5 million, principally through open market purchases on the Taiwan Stock Exchange. We subsequently increased our holding to 23.3% following open market purchases of additional shares in July and August of 2000. As of May 31, 2005, we held 23.3% of Universal Scientific's outstanding equity shares. Six out of the nine directors on the Universal Scientific board of directors, including the chairman, are our representatives.

Acquisition of NEC's Packaging and Testing Operations in Yamagata, Japan

On February 3, 2004, we and J&R Holding Limited, our wholly-owned subsidiary, entered into a share sale and purchase agreement with NEC Electronics Corporation, or NEC, and NEC Yamagata, Ltd. in connection with the acquisition of the semiconductor packaging and testing business of NEC Yamagata, a wholly-owned subsidiary of NEC. The acquisition was completed on May 31, 2004 and the purchase price, after accounting for certain purchase price adjustments, was approximately US\$25.6 million. The acquisition was consummated by means of a company split under the Japanese Commercial Code through which the packaging and testing business of NEC Yamagata was transferred to a company formed by NEC Yamagata named ASE Japan Co., Ltd. Pursuant to the terms and conditions of the share sale and purchase agreement, all of the issued and outstanding shares of ASE Japan were purchased by J&R Holding Limited, and ASE Japan now owns and operates the semiconductor packaging and testing business acquired from NEC Yamagata. In connection with the acquisition, we and ASE Japan also entered into a packaging and testing services agreement with NEC to provide packaging and testing services to NEC for an initial period of four years after the completion of the acquisition.

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Merger with ASE Chung Li and ASE Material

On October 28, 2003, we entered into a merger agreement with ASE Chung Li and ASE Material, pursuant to which ASE Chung Li and ASE Material merged with us on August 1, 2004. We are the surviving corporation. Upon the completion of the merger, all of the assets and liabilities of ASE Chung Li and ASE Material are owned and have been assumed by us, and the operations of ASE Chung Li and ASE Material have been integrated with our operations.

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The merger was consummated by means of a share exchange pursuant to which the respective shareholders of ASE Chung Li and ASE Material, other than ourselves but including our subsidiaries J&R Holding Limited, ASE Test and ASE Test Taiwan, received our common shares in exchange for the common shares of each of ASE Chung Li and ASE Material. 282,315,437 common shares were issued in connection with the merger, representing 7.9% of our outstanding shares as of October 28, 2003 before giving effect to such issuance.

As of October 28, 2003, 57.6% of the outstanding common shares of ASE Chung Li was held by us, 14.8% was held by J&R Holding Limited, our wholly-owned subsidiary, and 27.6% was held by ASE Test, our consolidated subsidiary. Pursuant to the merger agreement, all of the common shares of ASE Chung Li held by shareholders of ASE Chung Li, other than ourselves but including our subsidiaries J&R Holding Limited, ASE Test and ASE Test Taiwan, were exchanged for our common shares at an exchange ratio of 0.85 ASE Inc. common share per ASE Chung Li common share. In connection with the merger, we issued 79,914,225 common shares to J&R Holding Limited, 149,175,000 common shares to ASE Test and four common shares to certain individuals who were the original shareholders of ASE Chung Li. See "Item 7. Major Shareholders and Related Party Transactions--Related Party Transactions". The merger with ASE Chung Li had a transaction value of approximately NT\$7,101.8 million (US\$223.7 million), based on NT\$31.00 per ASE Inc. common share, which was the average of the closing prices of our common shares on the Taiwan Stock Exchange for two days prior to and following October 28, 2003.

As of October 28, 2003, 57.4% of the outstanding common shares of ASE Material was held by us and 4.0% was held by ASE Test Taiwan, with the remaining 38.6% held by the management and employees of ASE Material and ASE Inc., our affiliates, and others. Pursuant to the merger agreement, all of the common shares of ASE Material held by these shareholders other than ourselves were exchanged for our common shares at an exchange ratio of 0.50 ASE Inc. common share per ASE Material common share. In connection with the merger, we issued 53,226,208 common shares to these shareholders of ASE Material. The merger with ASE Material had a transaction value of approximately NT\$1,650.0 million (US\$52.0 million), based on NT\$31.00 per ASE Inc. common share, which was the average of the closing prices of our common shares on the Taiwan Stock Exchange for two days prior and following October 28, 2003. See "Item 7. Major Shareholders and Related Party Transactions--Related Party Transactions".

Joint Venture with Compeq Manufacturing Co. Ltd.

On October 28, 2003, we entered into a joint venture agreement with Compeq to establish ASE-Compeq Technologies, Inc. to focus on the design and production of interconnect materials for packaging semiconductors. Pursuant to the joint venture agreement, we own 60% of the equity interest in ASE-Compeq Technologies, Inc. and Compeq owns the remaining 40%. As of May 31, 2005, we had invested NT\$12 million (US\$0.4 million) in ASE-Compeq Technologies, Inc. Our Chairman,

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Jason C.S. Chang, serves as the Chairman of ASE-Compeq Technologies, Inc. The joint venture has been approved by the ROC Fair Trade Commission and was incorporated in January 2004. The initial focus of ASE-Compeq Technologies, Inc. is on meeting our substrates requirements by providing us access to Compeq's production capacity and expertise, know-how and engineering capabilities in the design and production of advanced substrates and gradually expand its customer base to include integrated device manufacturers and other backend subcontractors. ASE-Compeq Technologies, Inc. will initially utilize Compeq's existing facilities in Ta Yuan, Taiwan.

Acquisition of ASE (U.S.) Inc.

In order to decrease our dependence upon sales agents for sales and customer service in North America and Europe, in July 2004, we, through our subsidiary J&R Holding Limited, purchased all of the outstanding shares of ASE (U.S.) Inc. from Y.C. Hsu, ASE (U.S.) Inc.'s sole shareholder, for a purchase price of US\$4.6 million. ASE (U.S.) Inc. is now our wholly-owned subsidiary through which we provide sales and customer service in North American and Europe. See "--Business Overview--Sales and Marketing--Sales and Customer Service Agents".

BUSINESS OVERVIEW

Together with our subsidiary ASE Test, we are the world's largest independent provider of semiconductor packaging and testing services based on 2004 revenues. Our services include semiconductor packaging, design and production of interconnect materials, front-end engineering testing, wafer probing and final testing services. We

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believe that, as a result of the following, we are better positioned than our competitors to meet the requirements of semiconductor companies worldwide for outsourced packaging and testing services across a wide range of end-use applications:

- o our ability to provide a broad range of advanced semiconductor packaging and testing services on a large-scale turnkey basis;
- o our expertise in developing and providing advanced packaging, interconnect materials and testing technologies and solutions;
- o our scale of operations and financial position, which enable us to make significant investments in capacity expansion and research and development as well as to make selective acquisitions;
- o our geographic presence in key centers of outsourced semiconductor and electronics manufacturing; and
- o our long-term relationships with providers of complementary semiconductor manufacturing services, including our strategic alliance with TSMC, the world's largest dedicated semiconductor foundry.

We believe that the trend for semiconductor companies to outsource their packaging and testing requirements is accelerating as semiconductor companies increasingly rely on independent providers of foundry and advanced packaging and testing services. In response to the increased pace of new product development and shortened product life and production cycles, semiconductor companies are

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increasingly seeking independent packaging and testing companies that can provide turnkey services in order to reduce time-to-market. We believe that our expertise and scale in advanced technology and our ability to integrate our broad range of solutions into turnkey services allow us to benefit from the accelerated outsourcing trend and better serve our existing and potential customers.

We believe that we have benefited, and will continue to benefit, from our geographic location in Taiwan. Taiwan is currently the largest center for outsourced semiconductor manufacturing in the world and, in addition, has a high concentration of electronics manufacturing service providers, which are the end users of our customers' products. Our close proximity to foundries and other providers of complementary semiconductor manufacturing services is attractive to our customers who wish to take advantage of the efficiencies of a total semiconductor manufacturing solution by outsourcing several stages of their manufacturing requirements. Our close proximity to end users of our customers' products is attractive to our customers who wish to take advantage of the logistical efficiencies of direct shipment services that we offer. We believe that, as a result, we are well positioned to meet the advanced semiconductor engineering and manufacturing requirements of our customers.

Our global base of over 200 customers includes leading semiconductor companies across a wide range of end-use applications:

- o Agilent Technologies, Inc.
- o Altera Corporation
- o ATI Technologies, Inc.
- o Conexant Systems, Inc.
- o Freescale Semiconductor, Inc. (formerly the semiconductor operations of Motorola, Inc.)
- o IBM Corporation
- o LSI Logic Corporation
- o NEC Electronics Corporation
- o NVIDIA Corporation
- o ON Semiconductor Corp.
- o Philips Semiconductors Inc.
- o Qualcomm Incorporated
- o RF Micro Devices, Inc.
- o Silicon Integrated Systems Corp.
- o STMicroelectronics N.V.
- o Sunplus Technology Co., Ltd.
- o VIA Technologies, Inc.

Industry Background

General

Semiconductors are the basic building blocks used to create an increasing variety of electronic products and systems. Continuous improvements in semiconductor manufacturing processes and design technologies have enabled manufacturers to produce smaller, more complex and more reliable semiconductors at a lower cost per

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function. These improvements have resulted in significant performance and price benefits to manufacturers of electronic systems. As a result, semiconductor demand has grown substantially in our primary end-user markets for communications, personal computers and consumer electronics, and has experienced increased growth in other markets such as automotive products, industrial automation and control systems.

The semiconductor industry is characterized by strong long-term growth, with periodic and sometimes severe cyclical downturns. The Semiconductor Industry Association estimates that worldwide sales of semiconductors increased

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from approximately US\$51 billion in 1990 to US\$213 billion in 2004. The semiconductor industry experienced strong growth between 1992 and 1995 and between 1998 and 2000, with declines between 1996 and the first half of 1997 as well as in 1998. Starting from the fourth quarter of 2000, the semiconductor industry experienced a severe downturn due to a slowdown in the global economy, overcapacity in the semiconductor industry and worldwide inventory adjustment. The semiconductor industry started to show signs of a modest recovery in 2002, primarily as a result of inventory replenishment and the introduction of new products. This modest recovery, evident in 2002 and 2003, strengthened in 2004 and is expected to maintain its strength throughout most of 2005, according to the Semiconductor Industry Association. We believe that the pattern of long-term growth and cyclical fluctuations will continue in the semiconductor industry.

Outsourcing Trends in Semiconductor Manufacturing

Historically, semiconductor companies designed, manufactured, packaged and tested semiconductors primarily in their own facilities. Over the past several years, there has been a trend in the industry to outsource stages in the manufacturing process. Virtually every significant stage of the manufacturing process can be outsourced. Wafer foundry services and semiconductor packaging services are currently the largest segments of the independent semiconductor manufacturing services market. Most of the world's major integrated device manufacturers use some independent manufacturing services to maintain a strategic mix of internal and external manufacturing capacity.

The availability of technologically advanced independent manufacturing services has also enabled the growth of "fabless" semiconductor companies that focus on semiconductor design and marketing and outsource their fabrication, packaging and testing requirements to independent semiconductor manufacturing companies. The growth in the number and scale of fabless semiconductor companies that rely solely on independent companies to meet their manufacturing requirements will continue to be a driver of growth in the market for independent foundry, packaging and testing services. Similarly, the availability of technologically advanced independent manufacturing services has encouraged integrated device manufacturers, which had traditionally relied on in-house semiconductor manufacturing capacity, to increasingly outsource their manufacturing requirements to independent semiconductor manufacturing companies.

We believe the outsourcing of semiconductor manufacturing services will increase in the future from current levels for many reasons, including the following:

Technological Expertise and Significant Capital Expenditure. Semiconductor manufacturing processes have become highly complex, requiring substantial investment in specialized equipment and facilities and sophisticated engineering and manufacturing expertise. Technical expertise becomes increasingly important as the industry transitions from one generation of technology to another, as evidenced by the current migration of fabrication technology from 8-inch to 12-inch wafers. In addition, product life cycles have been shortening, magnifying the need to continuously upgrade or replace manufacturing equipment to accommodate new products. As a result, new investments in in-house packaging, testing and fabrication facilities are becoming less desirable to integrated device manufacturers because of the high investment costs as well as the inability to achieve sufficient economies of scale and utilization rates necessary to be competitive with the independent service providers. Independent packaging, testing and foundry companies, on the other hand, are able to realize the benefits of specialization and achieve economies of scale by providing services to a large base of customers across a wide range of products. This enables them to reduce costs and shorten production cycles through high capacity utilization and process expertise. In the process, they are also able to focus on discrete stages of semiconductor manufacturing and deliver services of superior quality.

Since the recent industry downturn beginning in the fourth quarter of 2000, semiconductor companies have significantly reduced their investment in in-house packaging and testing technologies and capacity. As a result, some

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semiconductor companies may have limited in-house expertise and capacity to accommodate large orders following a recovery in demand, particularly in the area of advanced technology. We expect semiconductor companies to increasingly outsource their packaging and testing requirements to take advantage of the advanced technology and scale of operations of independent packaging and testing companies.

Focus on Core Competencies. As the semiconductor industry becomes more competitive, semiconductor companies are expected to further outsource their semiconductor manufacturing requirements in order to focus their resources on core competencies, such as semiconductor design and marketing.

Time-to-Market Pressure. The increasingly short product life cycle has accelerated time-to-market pressure for semiconductor companies, leading them to rely increasingly on outsourced suppliers as a key source for effective manufacturing solutions.

Gartner Dataquest forecasts that the total outsourced semiconductor packaging market will grow from US\$8.2 billion in 2003 to US\$21.3 billion in 2009. Gartner Dataquest also forecasts that the total outsourced semiconductor testing market will grow from US\$2.3 billion in 2003 to US\$6.5 billion in 2009.

The Semiconductor Industry in Taiwan

The semiconductor industry in Taiwan has been a leader in, and a major beneficiary of, the trend in outsourcing. The growth of the semiconductor industry in Taiwan has been the result of several factors. First, semiconductor manufacturing companies in Taiwan typically focus on one or two stages of the semiconductor manufacturing process. As a result, these companies tend to be more efficient and are better able to achieve economies of scale and maintain higher capacity utilization rates. Second, semiconductor manufacturing companies in Taiwan that provide the major stages of the manufacturing process are located close to each other and typically enjoy close working relationships. This close network is attractive to customers who wish to outsource several stages of the semiconductor manufacturing process. For instance, a customer could reduce production cycle time and unit cost and streamline logistics by outsourcing its foundry, packaging, testing and drop shipment services to semiconductor manufacturing companies in Taiwan. Third, Taiwan also has an educated labor pool and a large number of engineers suitable for sophisticated manufacturing industries such as semiconductors.

As a result of the growth of the global semiconductor market, the semiconductor industry in Taiwan has in recent years made significant capital expenditures to expand capacity and technological capabilities. The ROC government has also provided tax incentives, long-term loans at favorable rates and research and development support, both directly and indirectly through support of research institutes and universities. As a result of investments made in recent years, Taiwan has achieved substantial market share in the outsourced semiconductor manufacturing industry. Furthermore, the growth of Taiwan's electronics manufacturing industry, particularly in personal computer design and manufacturing, has created substantial local demand for semiconductors.

The Semiconductor Industry in Other Asian Regions

Many of the factors that contributed to the growth of the semiconductor industry in Taiwan have also contributed to the recent development of the semiconductor industry in Southeast Asia. Access to expanding semiconductor foundry services in Singapore, convenient proximity to major downstream electronics manufacturing operations in Malaysia, Singapore and Thailand, government-sponsored infrastructure support, tax incentives and pools of skilled engineers and labor at relatively low cost have all encouraged the development of back-end semiconductor service operations in Southeast Asia. The downstream electronics manufacturers in Southeast Asia have typically focused on products used in the communications, industrial and consumer electronics and personal computer peripheral sectors. The proximity to both semiconductor foundries and end users has influenced local and international semiconductor companies increasingly to obtain packaging, testing and drop shipment services from companies in Southeast Asia.

In addition, the world's leading electronics manufacturing service providers, many of them from Taiwan, are increasingly establishing manufacturing facilities in the PRC in order to take advantage of lower labor costs, government incentives for investment and the potential size of the domestic market for end users of electronics products. Many of the factors that contributed to the growth of the semiconductor industry in Taiwan are beginning

to emerge in the PRC and may play an increasingly important role in the growth of its semiconductor industry over the long term.

Overview of Semiconductor Manufacturing Process

The manufacturing of semiconductors is a complex process that requires increasingly sophisticated engineering and manufacturing expertise. The manufacturing process may be divided into the following stages from circuit design to shipment:

[GRAPHICS OMITTED]

We are involved in all stages of the semiconductor manufacturing process except circuit design and wafer fabrication.

| Process | Description |
|---------------------------------|---|
| Circuit Design..... | The design of a semiconductor is developed by laying out circuit components and interconnections. A complex circuit may be designed with as many as 20 layers of patterns or more. |
| Front-End Engineering Test..... | Throughout and following the design process, prototype semiconductors undergo front-end engineering testing, which involves software development, electrical design validation, reliability and failure analysis. |

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Wafer Fabrication..... Process begins with the generation of a photomask through the definition of the circuit design pattern on a photographic negative, known as a mask, by an electron beam or laser beam writer. These circuit patterns are transferred to the wafers using various advanced processes.

Wafer Probe..... Each individual die is electrically tested, or probed, for defects. Dies that fail this test are marked to be

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| Process | Description |
|-----------------|--|
| Packaging..... | <p>discarded.</p> <p>Packaging, also called assembly, is the processing of bare semiconductors into finished semiconductors and serves to protect the die and facilitate electrical connections and heat dissipation. The patterned silicon wafers received from our customers are diced by means of diamond saws into separate dies, also called chips. Each die is attached to a leadframe or a laminate (plastic or tape) substrate by epoxy resin. A leadframe is a miniature sheet of metal, generally made of copper and silver alloys, on which the pattern of input/output leads has been cut. On a laminate substrate, typically used in BGA packages, the leads take the shape of small bumps or balls. Leads on the leadframe or the substrate are connected by extremely fine gold wires or bumps to the input/output terminals on the chips, through the use of automated machines known as "bonders". Each chip is then encapsulated, generally in a plastic casing molded from a molding compound, with only the leads protruding from the finished casing, either from the edges of the package as in the case of the leadframe-based packages, or in the form of small bumps on a surface of the package as in the case of BGA or other substrate-based packages.</p> |
| Final Test..... | <p>Final testing is conducted to ensure that the packaged semiconductor meets performance specifications. Final testing involves using sophisticated</p> |

testing equipment known as testers and customized software to electrically test a number of attributes of packaged semiconductors, including functionality, speed, predicted endurance and power consumption. The final testing of semiconductors is categorized by the functions of the semiconductors tested into logic/mixed-signal final testing and memory final testing. Memory final testing typically requires simpler test software but longer testing time per device tested.

Strategy

Our objective is to provide advanced semiconductor packaging and testing services and interconnect materials design and production capabilities which set industry standards and to lead and facilitate the industry trend towards outsourcing semiconductor manufacturing requirements. The principal elements of our strategy are to:

Maintain Our Focus on Providing a Complete Range of Semiconductor Packaging and Testing Services

We believe that an important factor in our ability to attract leading semiconductor companies as our customers has been our ability to provide turnkey services on a large scale. Turnkey services consist of the integrated packaging, testing and direct shipment of semiconductors to end users designated by our customers. As part of our integrated packaging solution, we also design and produce advanced and cost-competitive interconnect materials, substantially all of which are for internal use in our packaging operations. As a result of our technical expertise and large production capacity in both packaging and testing, we are able to provide turnkey services on a large scale. As product lives and production cycles shorten and packaging and testing technologies advance more rapidly, our

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customers increasingly value our ability to work with them as an integral and strategic partner in the development of their products. The front-end engineering testing expertise of ISE Labs has greatly enhanced our ability to participate in the earlier stages of circuit design and the semiconductor manufacturing process. Our establishment of ASE Material in 1997 for the design and production of interconnect materials, such as substrates and leadframes, has provided us with expertise in interconnect materials technology, which has become increasingly critical for our customers both in terms of cost and production cycle time. With the merger of ASE Material into us in 2004, we believe we are better positioned to provide effective and efficient service to our customers.

Continue to Focus on Advanced Technological, Processing and Interconnect Materials Capabilities

We intend to continue our focus on developing advanced process and product technologies in order to meet the advanced semiconductor engineering requirements of our customers. Our expertise in packaging technology has enabled

us to develop advanced solutions such as fine-pitch wire bonding, stacked die packaging and bump chip carrier packaging. We are continuously investing in research and development in response to and in anticipation of migrations in technology and intend to continue to acquire access to new technologies through strategic alliances and licensing arrangements.

We intend to continue to focus on developing and enhancing our existing interconnect materials capabilities, both through our interconnect materials operations (formerly operated by ASE Material prior to its merger with us), and through our joint venture with Compeq. We expect that interconnect materials will become an increasingly important value-added component of the semiconductor packaging business as packaging technology migrates from the traditional wire bonding process towards the flip-chip wafer bumping process and interconnect materials such as advanced substrates represent a higher percentage of the cost of the packaging process. By focusing on the design and production of interconnect materials, we plan to capture most of the value added components of the packaging business and lead the migration in packaging technology. In 2004, our interconnect materials operations supplied approximately one-half of our consolidated substrate requirements by value. We intend to capture more of the value-added components of the packaging business by increasing the percentage of our substrate requirements obtained from our own operations and through our joint venture with Compeq. We believe that our merger with ASE Material will further strengthen our ability to provide turnkey services that incorporate interconnect materials to our customers and finance the growth of the interconnect materials business. In addition, we expect that our joint venture with Compeq will further strengthen our capabilities in the interconnect materials business by providing us access to Compeq's production capacity and expertise, know-how and engineering capability in the design and production of advanced substrates.

We intend to continue to strengthen our capabilities in testing complex, high-performance semiconductors. In particular, we plan to focus on testing logic/mixed-signal semiconductors that are characterized by very high clock speeds, high pin count and high levels of integration.

The increasing miniaturization of semiconductors and the growing complexity of interconnect technology have also resulted in the blurring of the traditional distinctions among assembly at different levels of integration: chip, module, board and system. We currently provide module assembly services primarily at our facilities in Malaysia, Korea and the PRC. Our controlling interest in Universal Scientific has provided us with access to process and product technologies at the levels of module, board and system assembly and test, which helps us to better anticipate industry trends and take advantage of potential growth opportunities.

Strategically Expand Production Capacity

We intend to strategically expand our production capacity, both through internal growth and through selective acquisitions and joint ventures, with a focus on providing more advanced packaging and testing services, which we believe present greater opportunities to achieve higher growth in our revenues and higher margins. We believe that the demand for advanced semiconductor packaging and testing services will grow at a faster pace than demand for traditional packaging and testing services. The gradual upturn in the demand for advanced packaging and testing services is partially due to the trend of integrated device manufacturers outsourcing their manufacturing requirements for advanced packaging and testing services rather than undertaking the high capital investment costs of maintaining in-house advanced packaging and testing capabilities. Packaging and testing services for more advanced semiconductors also generally have higher margins for two reasons. First, as the packaging and testing of

advanced semiconductors become more complex, requiring greater expertise in process and technology, such services typically command higher average selling prices. Second, we have been able to achieve higher utilization rates for the equipment we use for more advanced packaging and testing, compared to other equipment that we maintain. We believe that our technical expertise, as well as our scale of operations and financial position, which had enabled us to continue to make investments in more advanced packaging and testing equipment even in times of market downturn, have enabled us to attract a greater proportion of the demand for more advanced packaging and testing services.

We evaluate acquisition opportunities on the basis of access to new markets and technology, the enhancement of our production capacity, economies of scale and management resources, and closer proximity to existing and potential customers. In 1999, we acquired ISE Labs, an independent testing company with operations in California, Texas, Hong Kong and Singapore. Through combining the front-end engineering testing capabilities of ISE Labs with our existing final testing capabilities, we are able to provide our customers with complete semiconductor testing solutions. In 1999, we acquired the semiconductor packaging and testing operations of Motorola, Inc. located in Chung Li, Taiwan and Paju, South Korea, which enabled us to expand our capacity and gain access to specialized packaging and testing technologies with a focus on wireless communications and automotive end-products. In February 2004, we acquired NEC's semiconductor packaging and testing operations located in Yamagata, Japan, which enabled us to expand our capacity and gain access to the Japanese market and advanced packaging and testing facilities and know-how.

Continue to Leverage Our Presence in Key Centers of Semiconductor and Electronics Manufacturing

We intend to continue leveraging our presence in key centers of semiconductor and electronics manufacturing to further grow our business. We have significant packaging and testing operations in Taiwan, currently the largest center for outsourced semiconductor manufacturing in the world. This presence enables our engineers to work closely with our customers as well as foundries and other providers of complementary semiconductor manufacturing services early in the semiconductor design process, enhances our responsiveness to the requirements of our customers and shortens production cycles. In addition, as a turnkey service provider, we are able to offer in Taiwan packaging and testing services, including interconnect materials solutions, all within relatively close geographic proximity to our customers, complementary service providers and the end users of our customers' products. In addition to our current operations, we intend to expand our packaging, testing and interconnect materials operations in Chung Li, Taiwan to better serve our customers located in northern Taiwan and customers who request that we maintain the capability of packaging and testing their products at more than one location in Taiwan.

In addition to our locations in Taiwan, we have operations in the following locations:

- o Korea -- an increasingly important center for the manufacturing of memory and communications devices with a concentration of integrated device manufacturers specializing in these products;
- o Malaysia and Singapore -- an emerging center for outsourced semiconductor manufacturing in Southeast Asia with a concentration of

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integrated device manufacturers;

- o Silicon Valley in California -- the preeminent center for semiconductor design with a concentration of fabless customers; and
- o Japan -- an emerging market for semiconductor packaging and testing services as Japanese integrated device manufacturers increasingly outsource their semiconductor manufacturing requirements.

Strengthen and Develop Strategic Relationships with Providers of Complementary Semiconductor Manufacturing Services

We intend to strengthen existing and develop new strategic relationships with providers of other complementary semiconductor manufacturing services, such as foundries, as well as equipment vendors, raw material suppliers and technology research institutes, in order to offer our customers total semiconductor manufacturing solutions covering all stages of the manufacturing of their products from design to shipment.

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Since 1997, we have maintained a strategic alliance with TSMC, the world's largest dedicated semiconductor foundry, which designates us as the non-exclusive preferred provider of packaging and testing services for semiconductors manufactured by TSMC. Through our strategic alliance with and close geographic proximity to TSMC, we are able to offer our customers a total semiconductor manufacturing solution that includes access to foundry services in addition to our packaging, testing and direct shipment services.

Principal Products and Services

We offer a broad range of advanced semiconductor packaging and testing services. Our package types employ either leadframes or substrates as interconnect materials. The semiconductors we package are used in a wide range of end-use applications, including communications, personal computers, consumer electronics, industrial, automotive and other applications. Our testing services include front-end engineering testing, which is performed during and following the initial circuit design stage of the semiconductor manufacturing process, wafer probe, final testing and other related semiconductor testing services. We focus on packaging and testing logic semiconductors. We offer our customers turnkey services which consist of packaging, testing and direct shipment of semiconductors to end users designated by our customers. In 2004, 2003 and 2002, our packaging revenues, including revenues from module assembly, accounted for 79.2%, 78.6% and 77.9% of our net revenues, respectively, and our testing revenues accounted for 20.2%, 21.2% and 22.1% of our net revenues, respectively.

Packaging Services

We offer a broad range of package types to meet the requirements of our customers, with a focus on advanced packaging solutions. Within our portfolio of package types, we focus on the packaging of semiconductors for which there is expected to be strong demand. These include advanced leadframe-based package types such as quad flat package, thin quad flat package, bump chip carrier and quad flat no-lead package, and package types based on substrates, such as flip-chip BGA and other BGA types as well as other advanced packages such as wafer-bumping products. We are among the leaders in such advanced packaging processes and technologies and are well positioned to lead the technology migration in the semiconductor packaging industry.

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The semiconductor packaging industry has evolved to meet the advanced packaging requirements of high-performance semiconductors. The development of high-performance electronics products has spurred the innovation of semiconductor packages that have higher interconnect density and better electrical performance. As a part of this technology migration, semiconductor packages have evolved from leadframe-based packages to substrate-based packages. The key differences of these package types are:

- o the size of the package;
- o the density of electrical connections the package can support; and
- o the thermal and electrical characteristics of the package.

Leadframe-Based Packages. Leadframe-based packages are packaged by connecting the die, using wire bonders, to the leadframe with gold wire. As packaging technology improves, the number of leads per package increases. Packages have evolved from the lower pin-count plastic dual in-line packages to higher pin-count quad flat packages. In addition, improvements in leadframe-based packages have reduced the footprint of the package on the circuit board and improved the electrical performance of the package. The following table sets forth our principal leadframe-based packages.

| Package Types | Number of Leads | Description | End-Use Applications |
|---|-----------------------|---|--|
| Quad Flat Package (QFP)/ Thin Quad Flat Package (TQFP)..... | 44-256 | Designed for advanced processors and controllers, application-specific integrated circuits and digital signal processors. | Multimedia applications, cellular phones, personal computers, automotive and industrial products, hard disk drives, communication boards such as ethernet, integrated services |

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| Package Types | Number of Leads | Description | End-Use Applications |
|--|-----------------------|--|--|
| Quad Flat No-Lead Package (QFN)/Microchip Carrier (MCC)..... | 12-84 | QFN, also known as MCC, uses half-encapsulation technology to expose the rear side of the die pad and the tiny fingers, which are used to connect the chip and | digital network, and notebook computers. Cellular phones, wireless local access network, or wireless LAN, personal digital assistant devices and digital cameras. |

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bonding wire with
printed circuit boards.

| | | | |
|--|--------|--|---|
| Bump Chip Carrier (BCC) | 16-156 | BCC packages use plating metal pads to connect with printed circuit boards, creating enhanced thermal and electrical performance. | Cellular phones, wireless LAN, personal digital assistant devices and digital cameras. |
| Small Outline Plastic Package (SOP)/Thin Small Outline Plastic Package (TSOP)..... | 8-56 | Designed for memory devices including static random access memory, or SRAM, dynamic random access memory, or DRAM, fast static RAM, also called FSRAM, and flash memory devices. | Consumer audio/video and entertainment products, cordless telephones, pagers, fax machines, printers, copiers, personal computer peripherals, automotive parts, telecommunications products, recordable optical disks and hard disk drives. |
| Small Outline Plastic J-Bend Package (SOJ)... | 20-44 | Designed for memory and low pin-count applications. | DRAM memory devices, microcontrollers, digital analog conversions and audio/video applications. |
| Plastic Leaded Chip Carrier (PLCC)..... | 28-84 | Designed for applications that do not require low-profile packages with high density of interconnects. | Personal computers, scanners, electronic games and monitors. |
| Plastic Dual In-line Package (PDIP)..... | 8-64 | Designed for consumer electronic products. | Telephones, televisions, audio/video applications and computer peripherals. |

Substrate-Based Packages. Substrate-based packages generally employ the BGA design, which utilizes a substrate rather than a leadframe. Whereas traditional leadframe technology places the electrical connection around the perimeter of the package, the BGA package type places the electrical connection at the bottom of the package surface in the form of small bumps or balls. These small bumps or balls are typically distributed evenly across the bottom surface of the package, allowing greater distance between individual leads and higher pin-counts.

The BGA package type was developed in response to the requirements of advanced semiconductors. The benefits of the BGA package type include:

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- o smaller package size;
- o higher pin-count;
- o greater reliability;
- o superior electrical signal transmission; and
- o better heat dissipation.

The industry demand for BGA packages has grown significantly in recent years. BGA packages are generally used in applications where size, density and performance are important considerations, such as cellular handsets and high pin-count graphic chipsets. Our expertise in BGA packages also includes capabilities in stacked-die BGA, which assembles multiple dies into a single package. As an extension to stacked-die BGA, we also assemble system-in-a-package products, which involve the integration of more than one chip into the same package. We believe that we are among the leaders in these packaging technologies.

We believe that there will continue to be growing demand for packaging solutions with increased input/output density, smaller size and better heat dissipation characteristics. In anticipation of this demand, we have focused on developing our capabilities in some advanced packaging solutions, such as flip-chip BGA. Flip-chip BGA technology replaces wire bonding with wafer bumping for interconnections within the package. Wafer bumping involves the placing of tiny solder balls, instead of wires, on top of dies for connection to substrates. As compared with more traditional packages which allow input/output connection only on the boundaries of the dies, flip-chip packages significantly enhance the input/output flow by allowing input/output connection over the entire surface of the dies.

The following table sets forth our principal substrate-based packages.

| Package Types | Number of Leads | Description | End-Use Applications |
|------------------|-----------------|--|---|
| Plastic BGA..... | 5-1296 | Designed for semiconductors which require the enhanced performance provided by plastic BGA, including personal computer chipsets, graphic controllers and microprocessors, application-specific integrated circuits, digital signal processors and memory devices. | Wireless products, cellular phones, global positioning systems, notebook computers, disk drives and video cameras. |
| Film BGA..... | 100-280 | Substrate-based package that has higher performance and lower profile than plastic BGA. | Cellular phones, pagers, wireless communications, digital signal processors and micro-controller applications and high performance disk drives. |

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| | | |
|------------------------------|--|---|
| Cavity Down BGA.... 256-1140 | Designed for memory devices such as flash memory devices, SRAM, DRAM and FSRAM, microprocessors/controllers and high-value, application-specific integrated circuits requiring a low profile, light and small package. | Cellular and other telecommunications products, wireless and consumer systems, personal digital assistants, or PDAs, disk drives, notebook computers and memory boards. |
|------------------------------|--|---|

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| Package Types | Number of Leads | Description | End-Use Applications |
|-------------------------------|--------------------|---|---|
| ----- | ----- | ----- | ----- |
| Stacked-Die BGA.... | 44-591 | Combination of multiple dies in a single package enables package to have multiple functions within a small surface area. | Cellular phones, local area networks, graphic and processors, digital cameras and pagers. |
| Flip-Chip BGA..... | 16-2401 | Using advanced interconnect technology, the flip-chip BGA package allows higher density of input/output connection over the entire surface of the dies. Designed for high-performance semiconductors that require high density of interconnects in a small package. | High-performance networking, graphics and processor applications. |
| Land Grid Array (LGA)..... | 10-72 .. | Leadless package which is essentially a BGA package without the solder balls. Based on laminate substrate, land grid array packages allow flexible routing and are capable of multichip module functions. | High frequency integrated circuits such as wireless communications products, computers servers and personal computer peripherals. |

Module Assembly. We also offer module assembly services, which combine one or more packaged semiconductors with other components in an integrated module to enable increased functionality, typically using automated surface mount technology, or SMT, machines and other machinery and equipment for system-level assembly. End-use applications for modules include PDAs, wireless LAN applications, Bluetooth applications, camera modules, automotive applications and toys. Historically, the majority of our module assembly services was

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provided at our facilities in Malaysia to a customer for the assembly of camera modules used in handsets. We expect revenues from such services to decrease substantially in 2005 as such customer moves its camera module assembly in-house. We also provide module assembly services at our facilities in Korea for radio frequency and power amplifier modules used in wireless communications and automotive applications.

Interconnect Materials. Interconnect materials connect the input/output on the semiconductor dies to the printed circuit board. Interconnect materials include leadframe, which is a miniature sheet of metal, generally made of copper and silver alloys, on which the pattern of input /output leads has been cut, and substrate, which is a multi-layer miniature printed circuit board. Interconnect materials are an important element of the electrical characteristics and overall performance of semiconductors. We produce both leadframes and substrates for use in our packaging operations. In 2004, our interconnect materials operations supplied approximately one-half of our consolidated substrate requirements by value.

We expect substrates will become an increasingly important value-added component of the semiconductor packaging business. The demand for higher performance semiconductors in smaller packages will continue to spur the development of advanced substrates that can support the advancement in circuit design and fabrication. As a result, we believe that the market for substrates will grow and the cost of substrates as a percentage of the total packaging process will increase, especially for advanced packages such as flip-chip BGA packages. In the past, substrates we designed for our customers were produced by independent substrate manufacturers. In anticipation of the migration in packaging technology, we established ASE Material in 1997 to develop our capabilities in the design and production of interconnect materials for use in our packaging operations. On August 1, 2004, we merged ASE Material with and into us. We are the surviving corporation. In addition, on October 28, 2003, we established ASE-Compeq Technologies Inc., a joint venture with Compeq, to focus on the design and production of interconnect materials for packaging semiconductors. Through our merger with ASE Material and our joint venture with Compeq, we believe we can capture growth opportunities in the interconnect materials business as well as reduce the production cycle time for our customers by integrating substrate design and Compeq's existing production

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capacity into our packaging services. See "Item 3. Key Information--Risk Factors--Risk Relating to Our Business--If we are not successful in developing and enhancing our in-house interconnect materials capabilities, our margins and profitability may be adversely affected."

The following table sets forth, for the periods indicated, the percentage of our packaging revenues accounted for by each principal type of packaging products or services.

| | Year Ended December 31, | | |
|--|------------------------------------|-------|-------|
| | 2002 | 2003 | 2004 |
| | ----- | | |
| | 2002 | 2003 | 2004 |
| | ----- | | |
| | (percentage of packaging revenues) | | |
| Advanced substrate and leadframe-based packages(1). | 80.8% | 78.5% | 71.4% |
| Traditional leadframe-based | | | |

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| | | | |
|----------------------|--------|--------|--------|
| packages(2)..... | 11.0 | 7.4 | 7.8 |
| Module assembly..... | 2.7 | 8.7 | 17.4 |
| Other..... | 5.5 | 5.4 | 3.4 |
| ----- | | | |
| Total..... | 100.0% | 100.0% | 100.0% |
| ===== | | | |

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- (1) Includes leadframe-based packages such as QFP/TQFP, QFN/MCC and BCC and substrate-based packages such as various BGA package types (including flip-chip and others) and LGA.
- (2) Includes leadframe-based packages such as SOP/TSOP, SOJ, PLCC and PDIP.

Testing Services

We provide a complete range of semiconductor testing services, including front-end engineering testing, wafer probing, final testing of logic/mixed-signal and memory semiconductors and other test-related services.

The testing of semiconductors requires technical expertise and knowledge of the specific applications and functions of the semiconductors tested as well as the testing equipment utilized. We believe that our testing services employ technology and expertise which are among the most advanced in the semiconductor industry. In addition to maintaining different types of testing equipment, which enables us to test a variety of semiconductor functions, we work closely with our customers to design effective testing and conversion programs on multiple equipment platforms for particular semiconductors.

In recent years, complex, high-performance logic/mixed-signal semiconductors have accounted for an increasing portion of our testing revenues. As the testing of complex, high-performance semiconductors requires a large number of functions to be tested using more advanced testing equipment, these products generate higher revenues per unit of testing time, as measured in central processing unit seconds.

Front-End Engineering Testing. We provide front-end engineering testing services, including customized software development, electrical design validation, and reliability and failure analysis.

- o Customized Software Development. Test engineers develop customized software to test the semiconductor using advanced testing equipment. Customized software, developed on specific testing platforms, is required to test the conformity of each particular semiconductor type to its unique functionality and specification.
- o Electrical Design Validation. A prototype of the designed semiconductor is subjected to electrical tests using advanced test equipment and customized software. These tests assess whether the prototype semiconductor complies with a variety of different operating specifications, including functionality, frequency, voltage, current, timing and temperature range.
- o Reliability Analysis. Reliability analysis is designed to assess the long-term reliability of the semiconductor and its suitability of use for intended applications. Reliability testing can include "burn-in" services, which electrically stress a device, usually at high temperature and voltage, for a period of time long enough to cause the failure of marginal devices.

- o Failure Analysis. In the event that the prototype semiconductor does not function to specifications during either the electrical design validation or reliability testing processes, it is typically subjected to failure analysis to determine the cause of the failure to perform as anticipated. As part of this analysis, the prototype semiconductor may be subjected to a variety of analyses, including electron beam probing and electrical testing.

Wafer Probing. Wafer probing is the step immediately before the packaging of semiconductors and involves visual inspection and electrical testing of the processed wafer for defects to ensure that it meets our customers' specifications. Wafer probing services require expertise and testing equipment similar to that used in final testing, and most of our testers can also be used for wafer probing.

Logic/Mixed-Signal Final Testing. We conduct final tests of a wide variety of logic/mixed signal semiconductors, with the number of leads ranging from the single digits to over one thousand and operating frequencies of over 2.5 Gbps for digital semiconductors and 6 GHz for radio frequency semiconductors, which are at the high end of the range for the industry. The products we test include semiconductors used for networking and wireless communications, graphics and disk controllers for home entertainment and personal computer applications, as well as a variety of application-specific integrated circuits for various specialized applications.

Memory Final Testing. We provide final testing services for a variety of memory products, such as SRAM, DRAM, single-bit erasable programmable read-only memory semiconductors and flash memory semiconductors.

Other Test-Related Services. We provide a broad range of additional test-related services, including:

- o Burn-in Testing. Burn-in testing is the process of electrically stressing a device, usually at high temperature and voltage, for a period of time to simulate the continuous use of the device to determine whether this use would cause the failure of marginal devices.
- o Dry Pack. Process which involves heating semiconductors in order to remove moisture before packaging and shipping to customers.
- o Tape and Reel. Process which involves transferring semiconductors from a tray or tube into a tape-like carrier for shipment to customers.

Drop Shipment Services. We offer drop shipment services for shipment of semiconductors directly to end users designated by our customers. Drop shipment services are provided mostly in conjunction with logic/mixed-signal testing. We provide drop shipment services to a significant percentage of our testing customers. A substantial portion of our customers at each of our facilities have qualified these facilities for drop shipment services. Since drop shipment eliminates the additional step of inspection by the customer before shipment to the end user, quality of service is a key consideration. We believe that our ability to successfully execute our full range of services, including drop shipment services, is an important factor in maintaining existing customers as well as attracting new customers.

The following table sets forth, for the periods indicated, the percentage of our testing revenues accounted for by each type of testing service.

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| | Year Ended December 31, | | |
|--------------------------------|----------------------------------|--------|--------|
| | 2002 | 2003 | 2004 |
| | (percentage of testing revenues) | | |
| Testing Services: | | | |
| Front-end engineering test.... | 7.4% | 4.3% | 3.6% |
| Wafer probe..... | 8.9 | 14.9 | 21.5 |
| Final test..... | 83.7 | 80.8 | 74.9 |
| Total..... | 100.0% | 100.0% | 100.0% |

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Seasonality

See "Item 5. Operating and Financial Review and Prospects--Operating Results and Trend Information--Quarterly Net Revenues, Gross Profit and Gross Margin".

Sales and Marketing

Sales and Marketing Offices

We maintain sales and marketing offices in Taiwan, the United States, Austria, Belgium, Germany, Korea, Malaysia and Japan. Our sales and marketing offices in Taiwan, which are located in Hsinchu and Kaohsiung, are staffed with both our and ASE Test Taiwan's employees. We conduct marketing research through our customer service personnel and those of our sales agent and through our relationships with our customers and suppliers to keep abreast of market trends and developments. We also provide advice in the area of production process technology to our major customers planning the introduction of new products. In placing orders with us, our customers specify which of our facilities these orders will go to. Our customers conduct separate qualification and correlation processes for each of our facilities that they use. See "Item 4. Information on the Company--Business Overview--Sales and Marketing--Qualification and Correlation by Customers".

Sales and Customer Service Agents

Under commission agreements, each of ASE Inc., ASE Test Taiwan, ASE Korea and ASE Test Malaysia has appointed Gardex as the non-exclusive sales agent for its services and products worldwide. Gardex helps us identify customers and, within parameters set by us, negotiate price, delivery and other terms with our customers. Gardex currently focuses on markets outside of Asia. Purchase orders are placed directly with us by our customers. We currently pay Gardex a commission of between 0.4% and 0.5% of our sales outside of Asia, payable quarterly, depending on the amount of these sales. In 2004, 2003 and 2002, we paid US\$8.3 million, US\$6.7 million and US\$5.6 million, respectively, in commissions to Gardex.

Gardex is wholly-owned by Y.C. Hsu, who has had a long personal relationship with Jason C.S. Chang, our Chairman and Chief Executive Officer, that predates the founding of our company. We have maintained a business relationship with Gardex and its predecessors since 1985. Gardex currently performs services only for us and our subsidiaries. See "Item 3. Key Information--Risk Factors--We depend on our agent for a portion of our sales in

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North America and Europe. Any serious disruption in our relationship with our agent, or substantial loss in its effectiveness, could significantly reduce our revenues and profitability."

Before we acquired ASE (U.S.) Inc. in July 2004, ASE (U.S.) Inc. was our non-exclusive agent that provided customer service and after-sales support to our customers in Europe and North America. See "Item 4. Information on the Company--History and Development of the Company--Acquisition of ASE (U.S.) Inc." In 2004, 2003 and 2002, we paid US\$26.4 million, US\$21.8 million and US\$15.6 million, respectively, in fees and service charges to ASE (U.S.) Inc.

Customers

Our global base of over 200 customers includes leading semiconductor companies across a wide range of end-use applications:

- o Agilent Technologies, Inc.
- o Altera Corporation
- o ATI Technologies, Inc.
- o Conexant Systems, Inc.
- o Freescale Semiconductor, Inc. (formerly the semiconductor operations of Motorola, Inc.)
- o IBM Corporation
- o NVIDIA Corporation
- o ON Semiconductor Corp.
- o Philips Semiconductors Inc.
- o Qualcomm Incorporated
- o RF Micro Devices, Inc.
- o Silicon Integrated Systems Corp.
- o STMicroelectronics N.V.
- o Sunplus Technology Co., Ltd.

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- o LSI Logic Corporation
- o NEC Electronics Corporation
- o VIA Technologies, Inc.

Our five largest customers together accounted for approximately 34.7%, 34.8% and 39.6% of our net revenues in 2004, 2003 and 2002, respectively. Other than Motorola, Inc. in 2003 and 2002, no other customer accounted for more than 10% of our net revenues in 2003 or 2002. No customer accounted for more than 10% of our net revenues in 2004.

We package and test for our customers a wide range of products with end-use applications in the communications, personal computers, consumer electronics, industrial and automotive sectors. The following table sets forth a breakdown of the percentage of our net revenues, for the periods indicated, by the principal end-use applications of the products which we packaged and tested.

| | Year Ended December 31, | | |
|--|-------------------------|--------|--------|
| | 2002 | 2003 | 2004 |
| Communications..... | 34.4% | 34.9% | 42.5% |
| Personal computers..... | 35.4 | 35.7 | 29.8 |
| Consumer electronics/industrial/automotive | 28.8 | 28.3 | 24.5 |
| Other..... | 1.4 | 1.1 | 3.2 |
| Total..... | 100.0% | 100.0% | 100.0% |
| | ===== | ===== | ===== |

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Many of our customers are leaders in their respective end-use markets. For example, we provide Freescale Semiconductor, Inc. (formerly the semiconductor operations of Motorola, Inc.), an industry leader in automotive and wireless communications semiconductor products, with most of its outsourced packaging and testing requirements. The following table sets forth some of our largest customers, in alphabetical order, categorized by the principal end-use applications of the products which we package and test for them.

| Communications | Personal Computers | Consumer Electronics/Industrial/ Automotive |
|-----------------------------|--------------------------|---|
| Agilent Technologies, Inc. | ATI Technologies, Inc. | Altera Corporation |
| Conexant Systems, Inc. | IBM Corporation | Freescale Semiconductor, |
| Freescale Semiconductor, | Marvell Technology Group | Inc. (formerly the |
| Inc. (formerly the | Ltd. | semiconductor |
| semiconductor operations | NVIDIA Corporation | operations of Motorola, |
| of Motorola, Inc.) | Silicon Integrated | Inc.) |
| NEC Electronics Corporation | Systems Corp. | LSI Logic Corporation |
| Philips Semiconductors Inc. | VIA Technologies, Inc. | Micronas Semiconductor |
| Qualcomm Incorporated | Winbond Electronics | Holding AG |
| RF Micro Devices, Inc. | Corporation | NEC Electronics |
| STMicroelectronics N.V. | | Corporation |
| | | ON Semiconductor Corp. |
| | | STMicroelectronics N.V. |
| | | Sunplus Technology Co., |
| | | Ltd. |

We categorize our packaging and testing revenues geographically based on the country in which the customer is headquartered. The following table sets forth, for the periods indicated, the percentage breakdown by geographic regions of our packaging and testing revenues.

| | Year Ended December 31, | | |
|--------------------|-------------------------|--------|--------|
| | 2002 | 2003 | 2004 |
| North America..... | 59.1% | 60.2% | 58.2% |
| Taiwan..... | 24.9 | 27.0 | 21.6 |
| Europe..... | 6.1 | 8.3 | 8.2 |
| Other..... | 9.9 | 4.5 | 12.0 |
| Total..... | 100.0% | 100.0% | 100.0% |
| | ===== | ===== | ===== |

The majority of our testing revenues is accounted for by the testing of semiconductors that were also packaged at our packaging facilities. The balance represented testing revenues from customers who delivered packaged semiconductors directly to our facilities for testing services alone. A substantial minority of our packaging revenues is accounted for by the packaging of semiconductors which were subsequently tested at our facilities. We expect that more customers of our packaging facilities will begin to contract for our packaging and testing services on a turnkey basis.

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Qualification and Correlation by Customers

Customers generally require that our facilities undergo a stringent qualification process during which the customer evaluates our operations and production processes, including engineering, delivery control and testing capabilities. The qualification process typically takes up to eight weeks, but can take longer depending on the requirements of the customer. In the case of our testing operations, after we have been qualified by a customer and before the customer delivers semiconductors to us for testing in volume, a process known as correlation is undertaken. During the correlation process, the customer provides us with sample semiconductors to be tested and either provides us with the test program or requests that we develop a conversion program. In some cases, the customer also provides us with a data log of results of any testing of the semiconductors which the customer may have conducted previously. The correlation process typically takes up to two weeks, but can take longer depending on the requirements of the customer. We believe our ability to provide turnkey services reduces the amount of time spent by our customers in the qualification and correlation process. As a result, customers utilizing our turnkey services are able to achieve shorter production cycles.

Pricing

We price our packaging services primarily on a cost-plus basis with reference to prevailing market prices. We price our testing services primarily on the basis of the amount of time, measured in central processing unit seconds, taken by the automated testing equipment to execute the test programs specific to the products being tested, as well as the cost of the equipment, with reference to prevailing market prices. Prices for our packaging and testing services are confirmed at the time firm orders are received from customers, which is typically four to eight weeks before delivery.

Raw Materials and Suppliers

Packaging

The principal raw materials used in our packaging processes are interconnect materials such as leadframes and substrates, gold wire and molding compound. Interconnect materials, such as leadframes, substrates, gold wire and molding compound represented approximately 15.6%, 43.6%, 18.4% and 7.6%, respectively, of our total cost of packaging materials in 2004.

The silicon die, which is the functional unit of the semiconductor to be packaged, is supplied in the form of silicon wafers. Each silicon wafer contains a number of identical dies. We receive the wafers from the customers or the foundries on a consignment basis. Consequently, we generally do not incur inventory costs relating to the silicon wafers used in our packaging process.

We do not maintain large inventories of leadframes, substrates, gold wire or molding compound, but generally maintain sufficient stock of each principal raw material for approximately one month's production based on blanket orders and rolling forecasts of near-term requirements received from customers. In addition, several of our principal suppliers dedicate portions of their inventories, typically in amounts equal to the average monthly amounts supplied to us, as reserves to meet our production requirements. However, shortages in the supply of materials experienced by the semiconductor industry have in the past resulted in occasional price adjustments and delivery delays. For example, in the first half of 2000, the industry experienced a shortage in the supply of advanced substrates used in BGA packages, which, at the time, were only available from a limited number of suppliers located primarily in Japan. Recently, we have experienced a tightening in the market supply of raw materials, and the fire in May 2005 at our facilities in Chung Li, Taiwan has damaged a substantial portion of our production capacity of interconnect

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materials for use in our packaging operations. See "Item 8. Financial Information--Significant Changes" for a

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description of the fire. We cannot guarantee that we will not experience shortages in the near future or that we will be able to obtain adequate supplies of raw materials in a timely manner and at a reasonable price. In the event of a shortage, we generally inform our customers and work together to accommodate changes in delivery schedules. See "Item 4. Information on the Company--Business Overview--Strategy--Continue to Focus on Advanced Technological, Processing and Interconnect Materials Capabilities".

We produce both leadframe and substrates for use in our packaging operations. In 2004, our interconnect materials operations supplied approximately one-half of our consolidated substrate requirements by value. See "Item 4. Information on the Company--Business Overview--Principal Products and Services--Interconnect Materials".

As a result of the "Directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment", or RoHS, becoming effective on July 1, 2006, we have begun adjusting our purchases of raw materials and our production processes in order to use raw materials that comply with this legislation for part of our production. The aim of this new legislation is to restrict the use in the European Union, or EU, of certain substances the EU has deemed harmful to consumers, which includes certain grades of molding compounds, solder and other raw materials that are used in our products. Manufacturers of electrical and electronic equipment will need to comply with this legislation in order to sell their products in an EU member state. As a result of this legislation, we expect that our customers will increasingly request that RoHS-compliant materials be used in our packaging processes, which will likely increase our raw material and other costs as a result.

Testing

Apart from packaged semiconductors, no other raw materials are needed for the functional and burn-in testing of semiconductors. For the majority of our testing equipment, we often base our purchases on prior discussions with our customers about their forecast requirements. The balance consists of testing equipment on consignment from customers and which are dedicated exclusively to the testing of these customers' specific products.

Equipment

Packaging

The most important equipment used in the semiconductor packaging process is the wire bonder. Wire bonders connect the input/output terminals on the silicon die using extremely fine gold wire to leads on leadframes or substrates. Typically, a wire bonder may be used, with minor modifications, for the packaging of different products. We purchase our wire bonders principally from Kulicke & Soffa Industries Inc. As of April 30, 2005, we operated an aggregate of 6,676 wire bonders, of which 5,485 were fine-pitch wire bonders. As of the same date, 33 of the wire bonders operated by us were consigned by customers. For the packaging of certain types of substrate-based packages, such as flip-chip BGA, die bonders are used in place of wire bonders. The number of bonders at a given facility is commonly used as a measure of the packaging

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capacity of the facility. In addition to bonders, we maintain a variety of other types of packaging equipment, such as wafer grind, wafer mount, wafer saw, automated molding machines, laser markers, solder plate, pad printers, dejunkers, trimmers, formers, substrate saws and scanners.

Testing

Testing equipment is the most capital intensive component of the testing process. We generally seek to purchase testers from different suppliers with similar functionality and the ability to test a variety of different semiconductors. We purchase testers from major international manufacturers, including Agilent Technologies, Inc., Credence Systems Corporation, LTX Corporation and Teradyne, Inc. Upon acquisition of new testers, we install, configure, calibrate, perform burn-in diagnostic tests on and establish parameters for the testers based on the anticipated requirements of existing and potential customers and considerations relating to market trends. As of April 30, 2005, we operated an aggregate of 1,467 testers, of which 227 were consigned by customers and 107 were leased under operating leases. In addition to testers, we maintain a variety of other types of testing equipment, such as automated handlers and probers (special handlers for wafer probing), scanners, reformers and computer workstations for use in software development. Each tester may be attached to a handler or prober. Handlers attach to testers and transport

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individual packaged semiconductor to the tester interface. Probers similarly attach to the tester and align each individual die on a wafer with the interface to the tester.

Test programs, which are the software that drive the testing of specific semiconductors, are written for a specific testing platform. We often perform test program conversions that enable us to test semiconductors on multiple test platforms. This portability between testers enables us to allocate semiconductors tested across our available test capabilities and thereby improve capacity utilization rates. In cases where a customer requires the testing of a semiconductor product that is not yet fully developed, the customer may provide personal computer workstations to us to test specific functions. In cases where a customer has specified testing equipment that was not widely applicable to other products which we test, we have required the customer to furnish the equipment on a consignment basis.

Intellectual Property

As of May 31, 2005, we held 597 Taiwan patents and 184 U.S. patents related to various semiconductor packaging technologies. In addition, we registered "ASE" as a trademark and as a servicemark in Taiwan.

We have also entered into various non-exclusive technology license agreements with other companies involved in the semiconductor manufacturing process, including Motorola, Inc., Tesser Inc., Fujitsu Limited, Flip Chip International, L.L.C. and LSI Logic Corporation. We paid royalties under our license agreements in the amount of NT\$164.0 million (US\$5.2 million), NT\$218.8 million and NT\$176.7 million in 2004, 2003 and 2002, respectively. The technology we license from these companies includes solder bumping, redistribution, ultra CSP assembly and other technologies used in the production of package types, such as BCC, flip-chip BGA and film BGA. The license agreement with Tesser Inc. will not expire until the expiration of the Tesser Inc. patents licensed by the agreement. The license agreements with Motorola, Inc. and LSI Logic Corporation will expire on December 31, 2010 and January 1, 2010,

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respectively. Our license agreements with Flip Chip International, L.L.C. will expire on March 1, 2009 and December 25, 2010. Historically, we negotiate annually the renewal of our license agreement with Fujitsu Limited, and we are currently in the process of negotiating the renewal of our license agreement with them.

Our success depends in part on our ability to obtain, maintain and protect our patents, licenses and other intellectual property rights, including rights under our license agreement with Motorola, Inc.

Quality Control

We believe that our advanced process technology and reputation for high quality and reliable services have been important factors in attracting and retaining leading international semiconductor companies as customers for our packaging and testing services. We have maintained an average packaging yield rate of 99.8% or greater in each of the last three years. We maintain a quality control staff at each of our facilities. Our quality control staff typically includes engineers, technicians and other employees who monitor packaging and testing processes in order to ensure high quality. Our quality assurance systems impose strict process controls, statistical in-line monitors, supplier control, data review and management, quality controls and corrective action systems. Our quality control employees operate quality control stations along production lines, monitor clean room environments and follow up on quality through outgoing product inspection and interaction with customer service staff. We have established quality control systems which are designed to ensure high quality service to customers, high product and testing reliability and high production yields at our facilities. We also have established an environmental management system in order to ensure that we can comply with the environmental standards of our customers and the countries within which they operate. See "Item 4. Information on the Company--Business Overview--Raw Materials and Suppliers--Packaging". In addition, our packaging and testing facilities have been qualified by all of our major customers after satisfying stringent quality standards prescribed by these customers.

Our packaging and testing operations are undertaken in clean rooms where air purity, temperature and humidity are controlled. To ensure stability and integrity of our operations, we maintain clean rooms at our facilities that meet U.S. Federal 209E class 1,000, 10,000 and 100,000 standards.

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Our packaging and testing facilities in Taiwan, Malaysia, Japan and Korea have been certified as meeting TS 16949 standards. Such standards were originally created by the International Automotive Task Force in conjunction with the International Standards Organization, or ISO. These standards provide for continuous improvement with an emphasis on the prevention of defects and reduction of variation and waste in the supply chain. The TS 16949 certification is required by some semiconductor manufacturers as a threshold indicator of company's quality control standards.

ISE Labs' testing facilities in Fremont, California have been approved by the U.S. military's Defense Supply Center, Columbus, Sourcing and Qualifications Unit as a laboratory possessing the requisite level of performance, quality and reliability required of suppliers for the U.S. Department of Defense.

ISE Lab's testing facilities in Fremont, California have been certified as meeting the ISO 9001 quality standards set by the ISO. In addition, our

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packaging and testing facilities Taiwan, Korea, Japan and Malaysia and our interconnect materials facilities have also been certified as meeting the ISO 14001 quality standards. ISO certifications are required by many countries in connection with sales of industrial products.

Our testing facilities in Kaohsiung, Taiwan have also been certified to be in compliance with OHSAS 18001:1999, a set of standards designed upon collaboration with occupational health and safety experts and now offered by many certification organizations as an indication of compliance with certain standards for occupational health and safety.

Our packaging, testing and interconnect materials facilities in Kaohsiung, Taiwan have been certified as a "Sony Green Partner", which indicates our compliance with the "Sony Green Package" standard requirements.

In addition, we have received various vendor awards from our customers for the quality of our products and services.

Competition

We compete in the highly competitive independent semiconductor packaging and testing markets. We face competition from a number of sources, including other independent semiconductor packaging and testing companies. More importantly, we compete for the business of integrated device manufacturers with in-house packaging and testing capabilities and fabless semiconductor design companies with their own in-house testing capabilities. Some of these integrated device manufacturers have commenced, or may commence, in-house packaging and testing operations in Asia. Substantially all of the independent packaging and testing companies that compete with us have established operations in Taiwan.

Integrated device manufacturers that use our services continuously evaluate our performance against their own in-house packaging and testing capabilities. These integrated device manufacturers may have access to more advanced technologies and greater financial and other resources than we do. We believe, however, that we can offer greater efficiency at lower cost while maintaining equivalent or higher quality for several reasons. First, as we benefit from specialization and economies of scale by providing services to a large base of customers across a wide range of products, we are better able to reduce costs and shorten production cycles through high capacity utilization and process expertise. Second, as a result of our customer base and product offerings, our equipment generally has a longer useful life. Third, as a result of the continuing reduction of investments in in-house packaging and testing capacity and technology at integrated device manufacturers, we are better positioned to meet their advanced packaging and testing requirements on a large scale.

Environmental Matters

Our packaging and interconnect materials operations generate environmental wastes, including gaseous chemical, liquid and solid industrial wastes. We have installed various types of anti-pollution equipment for the treatment of liquid and gaseous chemical waste generated at all of our semiconductor packaging facilities. We believe that we have adopted adequate anti-pollution measures for the effective maintenance of environmental protection standards that are consistent with the industry practice in the countries in which our facilities are located.

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In addition, we believe we are in compliance in all material respects with present environmental laws and regulations applicable to our operations and facilities.

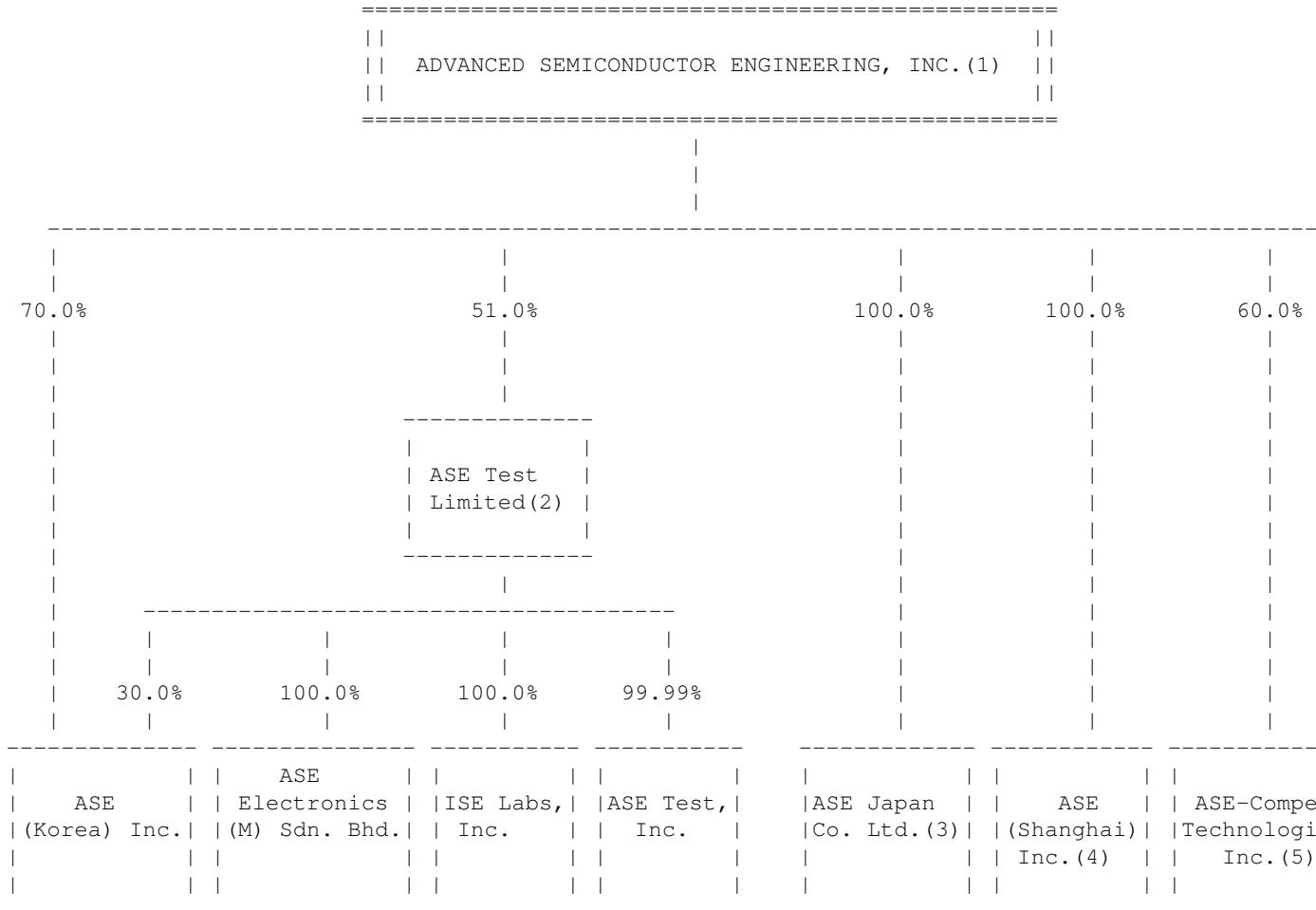
Insurance

We have insurance policies covering property damage and damage to our production facilities, buildings and machinery. In addition, we have insurance policies covering our liabilities in connection with certain accidents. Significant damage to any of our production facilities would have a material adverse effect on our results of operations.

We are not insured against the loss of key personnel.

ORGANIZATIONAL STRUCTURE

The following chart illustrates our corporate structure and our effective equity interest in each of our principal operating subsidiaries and affiliates as of May 31, 2005. The following chart does not include wholly-owned intermediate holding companies.



-
- (1) The common shares of ASE Inc. are listed on the Taiwan Stock Exchange under the symbol "2311". ADSs representing the shares of ASE Inc. are listed on the New York Stock Exchange under the symbol "ASX". [GRAPHICS OMITTED]
 - (2) The ordinary shares of ASE Test are quoted for trading on the Nasdaq National Market under the symbol "ASTSF". ASE Test's Taiwan depositary shares, which represent its ordinary shares, are listed for trading on the Taiwan Stock Exchange under the symbol "9101".
 - (3) Our acquisition of ASE Japan was completed in May 2004. For more information on the acquisition, see "--History and Development of the Company--Acquisition of NEC's Packaging and Testing Operations in Yamagata, Japan".
 - (4) ASE Shanghai began operations in June 2004. See "--Our Consolidated Subsidiaries--ASE Shanghai".
 - (5) In October 2003, we established ASE-Compeq Technologies, Inc., a joint venture with Compeq in which we own 60% of the equity interest, to focus on the design and production of interconnect materials for packaging semiconductors. For more information on the joint venture, see "--History and Development of the Company--Joint Venture with Compeq Manufacturing Co. Ltd."
 - (6) The common shares of Universal Scientific Industrial Co., Ltd. are listed on the Taiwan Stock Exchange under the symbol "2350".
 - (7) The common shares of Hung Ching are listed on the Taiwan Stock Exchange under the symbol "2527".

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Our Consolidated Subsidiaries

ASE Test

ASE Test is the largest independent testing company in the world, providing a complete range of semiconductor testing services to leading international semiconductor companies. ASE Test also provides semiconductor packaging services. ASE Test has testing operations in Taiwan, the United States and Singapore, and also maintains testing and packaging operations in Malaysia.

ASE Test was incorporated in 1995 and its ordinary shares have been quoted

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for trading on the Nasdaq National Market since June 1996 under the symbol "ASTSF". ASE Test's Taiwan depository shares representing its ordinary shares have been listed for trading on the Taiwan Stock Exchange under the symbol "9101" since January 1998. As of May 31, 2005, we held 51.0% of the outstanding shares of ASE Test.

ASE Test is a holding company incorporated in Singapore whose significant assets are its ownership interests in the following operating companies as of May 31, 2005:

- o ASE Test Taiwan. ASE Test Taiwan is ASE Test's 99.99%-owned subsidiary. It is incorporated in Taiwan and is engaged in the testing of integrated circuits;
- o ASE Test Malaysia. ASE Test Malaysia is ASE Test's wholly-owned subsidiary. It is incorporated in Malaysia and is engaged in the packaging and testing of integrated circuits;
- o ISE Labs. ISE Labs is ASE Test's wholly-owned subsidiary. It is incorporated in the United States and is engaged in the testing of integrated circuits. See "--History and Development of the Company--ISE Labs"; and
- o ASE Korea. ASE Test owns 30% of ASE Korea. We own the remaining 70%. It is incorporated in Korea and is engaged in the packaging and testing of semiconductors. See "--History and Development of the Company--ASE Chung Li and ASE Korea".

In 2004, ASE Test recorded net revenues of US\$621.1 million, operating income of US\$27.8 million and net income of US\$25.1 million. In 2003, ASE Test recorded net revenues of US\$391.9 million, operating income of US\$1.2 million and a net loss of US\$3.5 million. In 2002, ASE Test recorded net revenues of US\$302.0 million, an operating loss of US\$40.6 million and a net loss of US\$81.3 million.

ASE Korea

In July 1999, we and our subsidiary, ASE Test, jointly acquired Motorola's Semiconductor business in Paju, South Korea for the testing and packaging of semiconductors, thereby forming ASE Korea. We own 70% of ASE Korea and ASE Test owns the remaining 30%. See "--History and Development of the Company--ASE Chung Li and ASE Korea".

ASE Japan

ASE Japan was incorporated in Japan in May 2004 and is engaged in the packaging and testing of semiconductors. See "--History and Development of the Company--Acquisition of NEC's Packaging and Testing Operations in Yamagata, Japan".

ASE Shanghai

ASE Shanghai was established in 2001 as a wholly-owned subsidiary of ASE Inc. and began operations in June 2004. Located in the Pudong New Area of Shanghai, ASE Shanghai currently has a lot size of approximately 195,000 square feet and production floor space of approximately 431,000 square feet. ASE Shanghai primarily manufactures and supplies interconnect materials for our packaging operations and also provides module assembly services to third parties on a contract basis. As of May 31, 2005, ASE Shanghai had 1,811 employees.

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ASE-Compeq Technologies, Inc.

In October 2003, we established ASE-Compeq Technologies, Inc., a joint venture with Compeq in which we own 60% of the equity interest, to focus on the design and production of interconnect materials for packaging semiconductors. See "--History and Development of the Company--Joint Venture with Compeq Manufacturing Co. Ltd."

Our Unconsolidated Affiliates

As of May 31, 2005, we held approximately 23.3% of the outstanding shares of Universal Scientific and 26.4% of the outstanding shares of Hung Ching.

Universal Scientific

Universal Scientific, which is an ROC company, manufactures electronics products in varying degrees of system integration principally on a contract basis for original equipment manufacturers, including:

- o electronic components such as thick film mixed-signal devices, thick film resistors, high frequency devices and automotive and power electronic devices;
- o board and sub-system assemblies such as customized surface mount technology board assemblies, mother boards for personal computers, wireless local area network cards and fax control boards; and
- o system assemblies such as portable computers, desktop personal computers, network computers and servers.

We are the largest shareholder in Universal Scientific and six out of the nine directors on its board of directors, including the chairman, are representatives of ASE Inc.

Universal Scientific's principal manufacturing facilities are located in Nantou, Taiwan. In 2004, Universal Scientific recorded net revenues of NT\$53,231.5 million (US\$1,677.1 million), operating income of NT\$1,327.0 million (US\$41.8 million) and a net income of NT\$1,044.3 million (US\$32.9 million). In 2003, Universal Scientific recorded net revenues of NT\$40,928.1 million, an operating income of NT\$967.7 million and net income of NT\$776.3 million. In 2002, Universal Scientific recorded net revenues of NT\$31,775.9 million, operating income of NT\$803.4 million and net income of NT\$276.0 million. The shares of Universal Scientific are listed on the Taiwan Stock Exchange under the symbol "2350". As of May 31, 2005, Universal Scientific had a market capitalization of NT\$8,499.0 million (US\$267.8 million).

Hung Ching

Hung Ching is an ROC company engaged in the development and management of commercial, residential and industrial real estate properties in Taiwan. Hung Ching's completed development projects include the ASE Design Center commercial project and the Earl Village residential project, both located in Hsichih, Taiwan. Hung Ching was founded in 1986 by Chang Yao Hung-ying. Chang Yao Hung-ying is the mother of both Jason C.S. Chang, our Chairman and Chief Executive Officer, and Richard H.P. Chang, our Vice Chairman and President, and was a director of ASE Inc. from 1984 to June 2003. Jason C.S. Chang, Richard H.P. Chang, Chang Yao Hung-ying and other members of the Chang family are controlling shareholders of Hung Ching.

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In 2004, Hung Ching recorded net revenues of NT\$845.1 million (US\$26.6 million), an operating loss of NT\$374.4 million (US\$11.8 million) and a net loss of NT\$1,150.0 million (US\$36.2 million). In 2003, Hung Ching recorded net revenues of NT\$1,014.9 million, an operating loss of NT\$491.5 million and a net loss of NT\$483.8 million. In 2002, Hung Ching recorded net revenues of NT\$546.7 million, an operating loss of NT\$253.8 million and a net loss of NT\$521.5 million. The shares of Hung Ching are listed on the Taiwan Stock Exchange under the symbol "2527". As of May 31, 2005, Hung Ching had a market capitalization of NT\$1,631.4 million (US\$51.4 million).

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PROPERTY, PLANTS AND EQUIPMENT

We operate a number of packaging and testing facilities in Asia and the United States. Our facilities provide varying types or levels of services with respect to different end-product focus, customers, technologies and geographic locations. With our diverse facilities we are able to tailor our packaging and testing solutions closely to our customers' needs. The following table sets forth the location, commencement of operation, primary use, approximate floor space and ownership of our facilities as of April 30, 2005.

| Facility | Location | Commencement of Operation | Primary Use |
|-----------------|----------------------|----------------------------|--|
| ASE Inc. | Kaohsiung, Taiwan | March 1984 | Our primary packaging facility, which offers complete semiconductor manufacturing solutions in conjunction with ASE Test Taiwan and foundries located in Taiwan. Focuses primarily on advanced packaging services, including flip-chip, wafer bumping and fine-pitch wire bonding. Also have facilities for the design and production of interconnect materials. |
| | Chung Li, Taiwan | Acquired in August 1999 | An integrated packaging and testing facility that specializes in semiconductors for communications and consumer applications. Also facilities for the design and production of substrates. |
| ASE Test Taiwan | Kaohsiung, Taiwan | December 1987 | Our primary testing facilities, which offer complete semiconductor manufacturing solutions in conjunction with ASE Inc.'s facility in |

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| | | | |
|-------------------|---|---------------|---|
| | | | Kaohsiung and foundries located in Taiwan. Focuses primarily on advanced logic/mixed-signal testing for integrated device manufacturers, fabless design companies and system companies. |
| | Chung Li, Taiwan | October 2001 | Our primary wafer probing testing facilities. |
| ASE Test Malaysia | Penang, Malaysia | February 1991 | An integrated packaging and testing facility that focuses primarily on the requirements of integrated device manufacturers and system companies, including those for module assembly. |
| ASE Korea | Paju, Korea | March 1967 | An integrated packaging and testing facility that specializes in semiconductors for radio frequency, sensor and automotive applications. |
| ISE Labs | Fremont, California Austin, Texas Singapore | November 1983 | Front-end engineering and final testing facilities located in northern California in close proximity to some of the world's largest fabless design companies. Testing facilities located in close proximity to integrated device manufacturers and fabless companies in Texas and |

| Facility | Location | Commencement of Operation | Primary Use |
|--------------|---------------|---------------------------|---|
| | | | Southeast Asia. |
| ASE Shanghai | Shanghai, PRC | June 2004 | Design and production of semiconductor packaging materials and provision of module assembly services on a contract basis. |

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| | | | |
|-----------|-----------------|-----------------------|--|
| ASE Japan | Takahata, Japan | Acquired in June 2004 | An integrated packaging and testing facility that specializes in semiconductors for cellular phone, household appliance and automotive applications. |
|-----------|-----------------|-----------------------|--|

Our leased property in Kaohsiung consists primarily of approximately twenty leases of land in the Kaohsiung Nantze Export Processing Zone between ASE Inc. and ASE Test Taiwan, as the lessees, and the Export Processing Zones Administration, or the EPZA, under the Ministry of Economic Affairs. The leases have ten year terms that expire between the end of June 2005 and May 2014. No sublease or lending of the land is allowed. The EPZA has the right to adjust the rental price in the event the government revalues the land. The leases are typically renewable with three months notice prior to the termination date.

For information on the aggregate capacity of our facilities in terms of the number of bonders and testers we operate, see "--Business Overview--Equipment".

Closure of ASE Philippines

In order to consolidate our operations and improve operating efficiency across our various locations, we closed our facilities and discontinued our operations in the Philippines in October 2003, which had been conducted through ASE Philippines. We estimate that the charges associated with the closure of our operations in the Philippines will amount to approximately NT\$350 million (US\$11 million), of which NT\$148.5 million (US\$4.7 million) and NT\$101.5 million was recognized in 2004 and 2003, respectively.

Expansion

We have completed the construction of two new buildings in Chung Li, Taiwan with Hung Ching. The new buildings have floor space of approximately 1,022,000 square feet and are intended to house a part of our testing and packaging operations and a part of our interconnect materials operations. Construction commenced in September 2003 and was completed in May 2005. The total cost of the construction project to Hung Ching before its sale to us is estimated to be approximately NT\$1,200.0 million (US\$37.8 million). We are currently in discussions with Hung Ching to finalize the purchase price of the two new buildings. We plan to finance this construction project with internally generated cash or through bank loans. We have not yet paid Hung Ching for any portion of the construction costs for either of these two new buildings in Chung Li, Taiwan.

We have not finalized the portion of our productive capacity, either existing capacity or new capacity budgeted to be added in 2005, which will be allocated to these new buildings upon their completion.

Item 5. Operating and Financial Review and Prospects

OPERATING RESULTS AND TREND INFORMATION

The following discussion of our business, financial condition and results of operations should be read in conjunction with our consolidated financial statements, which are included elsewhere in this annual report. This discussion contains forward-looking statements that reflect our current views with respect to future events and financial performance. Our actual results may differ materially from those anticipated in these forward-looking statements as a result of any number of factors, such as those set forth under "Item 3. Key Information--Risk Factors" and elsewhere in this annual report. See

"Forward-Looking Statements".

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Overview

We offer a broad range of semiconductor packaging and testing services. In addition to offering each service separately, we also offer turnkey services, which consist of the integrated packaging, testing and direct shipment of semiconductors to end users designated by our customers. Our net revenues increased to NT\$81,712.6 million (US\$2,574.5 million) in 2004 from NT\$57,311.8 million in 2003 and NT\$45,586.8 million in 2002. The increase in our net revenues in 2003 and 2004 reflected a modest recovery in the semiconductor industry and increased outsourcing of the packaging of advanced package types such as BGA. In 2004 and 2003, we experienced a gradual improvement in our net revenues compared to 2002 across each of the end-use applications of the semiconductors that we packaged and tested. In addition to our overall increase in production volume, our improvement was also concentrated in the packaging of more advanced package types, the testing of more complex, high-performance semiconductors and the assembly of modules.

Pricing and Revenue Mix

We price our services on a cost-plus basis, taking into account the actual costs involved in providing these services, with reference to prevailing market prices. The majority of our prices and revenues are denominated in U.S. dollars. However, as more than half of our costs, including most of our labor and overhead costs, are denominated in NT dollars, we consider the NT dollar to be our functional currency. Furthermore, the majority of our financing costs are denominated in NT dollars.

In the case of semiconductor packaging, the cost of the silicon die, by most accounts the most costly component of the packaged semiconductor, is typically not reflected in our costs (or revenues) since it is typically supplied by our customers on a consignment basis. In the case of module assembly, we typically procure the substantial majority of the components and raw materials to be assembled, including packaged semiconductors, which are reflected both in our costs and our revenues. Compared to semiconductor packaging, module assembly typically generates higher revenues and incurs higher costs for a given amount of gross profit, and affects our margins accordingly.

The semiconductor industry is characterized by a general trend towards declining prices for products and services of a given technology over time. In addition, during periods of intense competition and adverse conditions in the semiconductor industry, the pace of this decline may be more rapid than that experienced in other years. The average selling prices of our packaging and testing services have experienced sharp declines during such periods as a result of intense price competition from other independent packaging and testing companies that attempt to maintain high capacity utilization levels in the face of reduced demand. During the industry downturn commencing in the fourth quarter of 2000, we experienced a significant deterioration in average selling prices which resulted in our company incurring a net loss in 2001 and a significant decrease in net income in 2002, as compared with the years prior to 2001. As a result of the modest recovery in the semiconductor industry and a gradual upturn in the outsourcing trend in 2002, 2003 and 2004, our average selling prices for packaging and testing services stabilized in 2002, 2003 and 2004 as compared to 2001.

In 2004, 2003 and 2002, packaging revenues, including revenues from module

assembly, accounted for 79.2%, 78.6% and 77.9% while testing revenues accounted for 20.2%, 21.2% and 22.1%, respectively, of our net revenues. Testing revenues as a percentage of our net revenues decreased in 2004 and 2003 primarily as a result of the increase in revenues from module assembly, but also in part because the average selling prices of our testing services are more severely affected by a downturn in the semiconductor industry than the average selling prices of our packaging services. In periods of an industry downturn, the decline in the average selling prices of our testing services is often exacerbated by the decrease in demand from our integrated device manufacturer customers, who typically maintain larger in-house testing capacity than in-house packaging capacity. These price declines are also exacerbated by the intense price competition from other independent testing service providers, who typically offer large price discounts during periods of depressed demand, such as in 2001, in order to maintain higher capacity utilization rates to defray the high fixed costs associated with testing operations.

We believe that, over the long term, the market for outsourced semiconductor testing services has more potential for growth than the market for outsourced semiconductor packaging services for two reasons. First, the portion of the semiconductor testing market that is currently accounted for by independent testing service providers is smaller than that for packaging. Second, the large capital expenditures needed for increasingly sophisticated

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testing equipment, as compared to less expensive packaging equipment, are also a driver for further outsourcing of testing services by integrated device manufacturers.

Declines in average selling prices have been partially offset over the last three years by a change in our revenue mix. In particular, revenues derived from packaging more advanced package types, such as flip-chip BGA, higher density packages with finer lead-to-lead spacing, or pitch, and testing of more complex, high-performance semiconductors have increased as a percentage of total revenues. In addition, module assembly, which typically commands higher unit prices, has accounted for an increased portion of our net revenues. We intend to continue to focus on packaging more advanced package types, such as BGA and flip-chip BGA, developing and offering new technologies in packaging and testing services and expanding our capacity to achieve economies of scale, as well as improving production efficiencies for older technology, in order to mitigate the effects of declining average selling prices on our profitability.

High Fixed Costs

Our operations, in particular our testing operations, are characterized by relatively high fixed costs. We expect to continue to incur substantial depreciation and other expenses as a result of our previous acquisitions of packaging and testing equipment and facilities. Our profitability depends in part not only on absolute pricing levels for our services, but also on utilization rates for our packaging and testing equipment, commonly referred to as "capacity utilization rates". In particular, increases or decreases in our capacity utilization rates could have a significant effect on gross margins since the unit cost of packaging and testing services generally decreases as fixed costs are allocated over a larger number of units. The capacity utilization rates of the machinery and equipment installed at our production facilities typically depend on factors such as the volume and variety of different products packaged or tested using such machinery and equipment, the efficiency of our operations in terms of the loading and adjustment of machinery and equipment for the packaging or testing of different products, the complexity

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of the different products to be packaged or tested, the amount of time set aside for the maintenance and repair of the machinery and equipment, the experience and schedule of work shifts of operators, and others.

The current generation of advanced testers typically cost between US\$1.0 million and US\$3.0 million each, while wire bonders used in packaging typically cost between US\$50,000 - US\$150,000 each. In 2004, 2003 and 2002, our depreciation as a percentage of net revenues was 16.2%, 20.1% and 24.9%, respectively. The decrease in depreciation as a percentage of net revenues in 2004 compared to 2003 was primarily a result of higher equipment utilization and an increase in revenues from advanced processes that translated into higher average selling prices in 2004, as well as increased reliance upon equipment that was leased instead of purchased. See "Item 4. Information on the Company--Business Overview--Equipment". We begin depreciating our equipment when it is placed into service. There may sometimes be a time lag between when our equipment is placed into service and when it achieves high levels of utilization. In periods of depressed industry conditions, we may experience lower than expected demand from customers and a sharp decline in the average selling price of our testing services, resulting in an increase in depreciation relative to net revenues. In particular, the capacity utilization rates for our testing equipment are more severely affected during an industry downturn as a result of the decrease in outsourcing demand from integrated device manufacturers, which typically maintain larger in-house testing capacity than in-house packaging capacity.

In 2003, we entered into operating leases with leasing companies to lease advanced testers, generally for a term of three years. We believe that these operating leases will allow us to better manage our capacity utilization rates and cash flow. Since testers operated under operating leases could be replaced with more advanced testers upon the expiration of the lease, we expect that these operating leases would improve our capacity utilization rate by reducing the number of testers with lower utilization. In 2004, we, along with ASE Test Taiwan, have also entered into a lease receivables purchase facility agreement in order to assist with our leasing of testing equipment. See "--Liquidity and Capital Resources" and note 25 to our consolidated financial statements. For more information about our testers, including the number of testers under lease, see "Item 4. Information on the Company--Business Overview--Equipment--Testing".

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Raw Material Costs

Substantially all of our raw material costs are accounted for by packaging and the production of interconnect materials, as testing requires minimal raw materials. In 2004, 2003 and 2002, raw material cost as a percentage of our net revenues was 27.2%, 28.8% and 30.2%, respectively. We expect interconnect materials to become an increasingly important component of the cost of our packaging revenues and we plan to continue to develop and enhance our in-house interconnect materials capabilities in order to maintain and enhance our profitability, ensure an adequate supply of interconnect materials at competitive prices and reduce production time. On August 1, 2004, we merged with ASE Material. On October 28, 2003, we established ASE-Compeq Technologies, Inc., a joint venture with Compeq, to focus on the design and production of interconnect materials for packaging semiconductors. We believe that our merger with ASE Material and our joint venture with Compeq will enhance our interconnect materials capabilities. For more information on the merger, see "Item 7. Major Shareholders and Related Party Transactions--Related Party Transactions". For more information on the joint venture, see "Item 4. Information on the Company--History and Development of the Company--Joint

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Venture with Compeq Manufacturing Co. Ltd." As a result of new restrictions in the European Union governing the use of hazardous substances, we expect that our customers will increasingly request that the materials used in our packaging processes be compliant with new European Union regulations, which will likely increase our raw material costs as a result. See "Item 4. Information on the Company--Business Overview--Raw Materials and Suppliers--Packaging".

Goodwill Amortization under ROC GAAP

Our operating income and non-operating income in recent years have been affected by goodwill amortization charges in connection with the restructuring of our investment holdings and other share repurchases. Under ROC GAAP, additional purchases of shares of consolidated subsidiaries (majority owned) or of companies accounted for using the equity method (less than majority but at least 20% owned) will generate goodwill in an amount equal to the difference between the purchase price and the investors' proportionate equity in the fair value of net assets of the investees. The goodwill generated is amortized over ten years. Goodwill amortization from the purchases of shares of consolidated subsidiaries are recognized under general and administrative expense. Goodwill amortization from the purchases of shares of companies accounted for using the equity method are recognized as a debit under investment income. Transactions which created significant goodwill were (1) our merger with ASE Chung Li and ASE Material (2) the purchase of additional ordinary shares of ASE Test in 2001 from two of our directors at the prevailing market price, (3) the purchase of a total of 26,250,000 shares of ISE Labs in 1999, 2000 and 2002, (4) the open market purchase of shares of Universal Scientific between 1999 and 2000 and (5) the purchase of additional ordinary shares of ASE Test in the open market in 2002 and 2004. See "Item 7. Major Shareholders and Related Party Transactions--Related Party Transactions" and notes 1 and 10 to the consolidated financial statements.

Merger of ASE Chung Li and ASE Material

On August 1, 2004, ASE Chung Li and ASE Material merged with and into us pursuant to a merger agreement dated October 28, 2003. We are the surviving corporation. The merger was consummated by means of a share exchange pursuant to which the respective shareholders, other than ourselves, of ASE Chung Li and ASE Material received our common shares in exchange for the common shares of each of ASE Chung Li and ASE Material. The share exchange pursuant to the merger agreement between ourselves and entities under our control was treated as a transaction between entities under common control, and all assets and liabilities exchanged were transferred at their carrying amounts. With respect to the share exchange between ourselves and the outstanding minority interests, the purchase method of accounting was applied as the exchange represents the acquisition of non-controlling equity interests in a subsidiary. Because the "fair value" of our common shares (based on NT\$31.00 per ASE Inc. common share, which was the average of the closing prices of our common shares on the Taiwan Stock Exchange for two days prior to and following October 28, 2003) exchanged for the non-controlling equity interests exceeded the "fair value" of the acquired net assets (based on the appraised value on the effective date of the merger), the merger generated goodwill of NT\$1,608.7 million (US\$50.7 million). For more information on the merger, see "Item 7. Major Shareholders and Related Party Transactions--Related Party Transactions".

Critical Accounting Policies and Estimates

Preparation of our consolidated financial statements requires us to make

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estimates and judgments in applying our critical accounting policies which have a significant impact on the results we report in our consolidated financial statements. We continually evaluate these estimates, including those related to revenue recognition, allowances for doubtful accounts, inventories, allowances for deferred income tax assets, useful lives of properties, realizability of long-term assets, goodwill and the valuation of marketable securities and long-term investments. We base our estimates on historical experience and other assumptions which we believe to be reasonable under the circumstances. Actual results may differ from these estimates under different assumptions and conditions. We have identified below the accounting policies that are the most critical to our consolidated financial statements.

Revenue Recognition. Revenues from semiconductor packaging services that we provide are recognized upon shipment. Revenues from testing services that we provide are recognized upon completion of the services. We do not take ownership of:

- o bare semiconductor wafers received from customers that we package into finished semiconductors; and
- o packaged semiconductors received from customers that we test.

The title and risk of loss remains with the customer for those bare semiconductors and/or packaged semiconductors. Accordingly, the cost of customer-supplied semiconductor materials is not included in our consolidated financial statements. Other criteria that we use to determine when to recognize revenue are:

- o existence of persuasive evidence of the services provided;
- o the selling price is fixed or determinable; and
- o collectibility is reasonably assured.

These policies are consistent with provisions in the Staff Accounting Bulletin No. 101 issued by the United States Securities and Exchange Commission, or SEC. We do not provide warranties to our customers except in cases of defects in the packaging services provided and deficiencies in testing services provided. An appropriate sales allowance is recognized in the period during which the sale is recognized, and is estimated based on historical experience.

Allowance for Doubtful Accounts. We periodically record a provision for doubtful accounts based on our evaluation of the collectibility of our accounts receivable. The total amount of this provision is determined by us as follows. We first identify the receivables of customers that are considered to be a higher credit risk based on their current overdue accounts with us, difficulties collecting from these customers in the past or their overall financial condition. For each of these customers, we estimate the extent to which the customer will be able to meet its financial obligations to us, and we record an allowance that reduces our accounts receivable for that customer to the amount that we reasonably believe will be collected. For all other customers, we maintain an allowance for doubtful accounts equal to a percentage of their aggregate accounts receivable. Based on our experience, we currently maintain an allowance for the accounts receivables of these other customers which average between 3% and 4%, on a consolidated basis, of our net revenues. Additional allowances may be required in the future if the financial condition of our customers or general economic conditions deteriorate, and this additional allowance would reduce our net income.

Inventories. In January 2004, we implemented enterprise resource planning, or ERP, in order to increase our ability to effectively monitor our resource allocation throughout our company. As a result, we switched from using the

weighted-average method to using the moving-average method to price our raw materials and supplies. As a result of the change, our net income for 2004 decreased NT\$26.8 million (US\$0.8 million) and our earnings per share decreased NT\$0.01. See also note 3 to the consolidated financial statements. Otherwise, inventories are recorded at cost when acquired and stated at the lower of weighted average cost or market value. Unbilled processing charges incurred are included in finished goods and work in progress and are stated at actual cost. Market value for finished goods and work in process is estimated to be the net realizable value. Market value for raw materials, supplies and spare parts is the replacement cost. Materials received from customers for processing, mainly

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of semiconductor wafers, are excluded from inventories, as title and risk of loss remains with the customers. An allowance for loss on decline in market value and obsolescence is provided based on the difference between the cost of inventory and the estimated market value based upon assumptions about future demand and market conditions. An additional inventory provision may be required if actual market conditions are less favorable than those projected.

Allowances for Deferred Income Tax Assets. Tax benefits arising from deductible temporary differences, unused tax credits and net operating loss carryforwards are recognized as deferred tax assets. We record a valuation allowance to reduce our deferred income tax assets to an amount that we believe will more likely than not be realized. We have considered future taxable income and ongoing prudent and feasible tax planning strategies in assessing the need and amount for the valuation allowance. In the event we were to determine that we would be able to realize our deferred income tax assets in the future in excess of our net recorded amount, an adjustment to our deferred income tax assets would increase income in the period such determination was made. Alternatively, should we determine that we would not be able to realize all or part of our net deferred income tax assets in the future, an adjustment to our deferred income tax assets would decrease income in the period such determination was made.

Useful Lives of Properties. Our properties primarily consist of machinery and equipment, buildings and improvements and land improvements. As our operations are capital intensive, we have significant investments in expensive packaging and testing equipment. Properties represented 61.5%, 58.9% and 60.1% of our total assets as of December 31, 2004, 2003 and 2002, respectively. We depreciate our properties based on our estimate of their economic useful lives to us, which is in turn based on our judgment, historical experience and the potential obsolescence of our existing equipment brought about by the introduction of more sophisticated packaging and testing technologies and processes. If we subsequently determine that the actual useful life of properties is shorter than what we had estimated, we will depreciate the remaining undepreciated value of that asset over its remaining economic useful life. This would result in increased depreciation and decreased net income during those periods. Similarly, if the actual lives of properties are longer than what we had estimated, we would have less depreciation and higher net income in subsequent periods. As a result, if our estimations of the useful lives of our properties are not accurate or are required to be changed in the future, our net income in future periods would be affected.

Realizability of Long-Term Assets. We are required to evaluate our equipment, goodwill and other long-lived assets for impairment whenever there is an indication of impairment. If certain criteria are met, we are required to record an impairment charge. In accordance with U.S. Statement of Financial Accounting Standards, or U.S. SFAS, No. 144, "Accounting for the Impairment or

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Disposal of Long-Lived Assets", long-lived assets held and used by us are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. For purposes of evaluating the recoverability of long-lived assets, the recoverability test is performed by comparing undiscounted net cash flows of the assets against the net book value of the assets. If the recoverability test indicates that an impairment has occurred, the impairment loss is the amount of the asset's net book value in excess of the related fair value. For example, we took a NT\$1,225.6 million impairment charge in 2002 against some of our testing equipment to reflect the decline in economic value of this equipment.

For the year ended December 31, 2004, we adopted ROC Statement of Financial Accounting Standards, or ROC SFAS, No. 35, "Impairment of Assets" to account for the impairment of our long-lived assets under ROC GAAP. In accordance with ROC SFAS No. 35, long-lived assets held and used by us are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. Prior to 2004, there were no requirements related to the evaluation of recoverability of long-lived assets' impairment under ROC GAAP, and we applied U.S. SFAS No. 144 when accounting for impairment of long-lived assets for both ROC GAAP and U.S. GAAP.

We have reclassified the impairment charge of NT\$1,225.6 million, formerly recognized under general and administrative operating expenses, as an individual line item under non-operating income (expense) as a result of our adoption of ROC SFAS No. 35. In 2003 and 2004, we did not take any impairment charges against long-lived assets.

Goodwill. Effective January 1, 2002, we adopted U.S. SFAS No. 142, "Goodwill and Other Intangible Assets", which requires that goodwill no longer be amortized, and instead be tested for impairment annually or more frequently if events or changes in circumstances indicate that the asset might be impaired. Under U.S. GAAP, we

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realized an impairment charge as of December 31, 2002 related to the goodwill from the acquisition of ASE Test. See "--U.S. GAAP Reconciliation". Under U.S. GAAP, we continue to carry significant goodwill resulting from the acquisition of ASE Korea and the purchase of shares of ISE Labs, and will have to assess such goodwill for impairment on at least an annual basis in the future. The merger of ASE Chung Li and ASE Material generated goodwill of NT\$1,608.7 million (US\$50.7 million). See "--Merger of ASE Chung Li and ASE Material". In 2004, as a result of our annual impairment review under U.S. GAAP, we recognized an impairment charge of NT\$1,337.7 million (US\$42.1 million) for goodwill relating to our purchase of shares of ISE Labs. If events and circumstances warrant in the future, the value of the goodwill could be further impaired under U.S. GAAP.

For the year ended December 31, 2004, we adopted ROC SFAS No. 35, "Impairment of Assets". In addition to yearly amortization, under ROC SFAS No. 35, goodwill is also evaluated at least annually to determine if it is impaired. As a result of our annual impairment review, under ROC GAAP, we recognized an impairment charge of NT\$1,950.1 million (US\$61.4 million) for goodwill relating to our shares of ASE Test and ISE Labs. See note 10 to the consolidated financial statements.

Valuation of Long-term Investments. We hold significant long-term investments in public and non-public entities. We periodically evaluate these long-term investments based on market prices, if available, the financial condition of the investee company, economic conditions in the industry, and our

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intent and ability to hold the investment for a long period of time. These assessments usually require a significant amount of judgment as a significant decline in the market price may not be the best indicator of impairment. Under U.S. GAAP, we evaluate long-term investments using the above mentioned criteria and, to the extent any decline in the value of a long-term investment is determined to be other than temporary, an impairment charge is recorded in the current period. The methods to measure the amount of impairment under ROC GAAP and U.S. GAAP may be based on different estimates of fair value depending on the circumstances. Under U.S. GAAP, market price is to be used, if available, to determine the fair value. Under ROC GAAP, however, if the market price is deemed to be a result of an inactive market, other measures of fair value may be used. Several of the long-term investments held by us are accounted for under the equity method. Any significant decline in the operations of an equity method investee could affect the value of the long-term investment and an impairment charge may occur.

After determining that other-than-temporary impairment occurred in our long-term investments as of December 31, 2004, an impairment charge of NT\$512.0 million (US\$16.1 million) was recorded under ROC GAAP based on the difference between the book value and the calculated recoverable amount of Universal Scientific with adjustments made to significant assets of Universal Scientific using appraised values and other appropriate information. In 2004, we incurred an impairment charge of NT\$1,707.0 million (US\$53.8 million) under U.S. GAAP relating to our shares of Universal Scientific. See "--U.S. GAAP Reconciliation" and note 29 to the consolidated financial statements.

ROC Labor Pension Act

In accordance with ROC Labor Pension Act, effective July 1, 2005, all ROC companies, including us, will be required to contribute at least 6% of their employees' monthly salary to the pension fund accounts of those employees who decide to participate in the "portable" pension plans available under the new law. Under the prior applicable pension law, the required contribution amount was no less than 2%. It is not yet clear how many of our employees will decide to participate in the "portable" pension plans available under the new law, but we anticipate that our pension costs will increase as a result of the ROC Labor Pension Act.

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Results of Operations

The following table sets forth, for the periods indicated, financial data from our consolidated statements of income, expressed as a percentage of net revenues.

| | Year Ended December | |
|-----------------------|-----------------------------|--------|
| | 2002 | 2003 |
| | (percentage of net revenue) | |
| ROC GAAP: | | |
| Net revenues..... | 100.0% | 100.0% |
| Packaging..... | 77.9 | 78.6 |
| Testing..... | 22.1 | 21.2 |
| Others..... | 0.0 | 0.2 |
| Cost of revenues..... | (84.4) | (81.1) |

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| | | |
|---|--------|--------|
| Gross profit..... | 15.6 | 18.9 |
| Operating expenses..... | (14.4) | (13.2) |
| Income (loss) from operations..... | 1.2 | 5.7 |
| Non-operating income (expenses)..... | (7.1) | (3.2) |
| Income (loss) before income tax and minority interest..... | (5.9) | 2.5 |
| Income tax benefit (expense)..... | 2.5 | 2.3 |
| Income (loss) before extraordinary loss and cumulative effect of change in accounting principle..... | (3.4) | 4.8 |
| Extraordinary loss..... | (0.1) | (0.1) |
| Cumulative effect of change in accounting principle..... | -- | -- |
| Minority interest in net (income) loss of subsidiaries.... | 3.8 | 0.1 |
| Net income (loss)..... | 0.3% | 4.8% |

 * Indicates percentage is less than 0.1%.

The following table sets forth, for the periods indicated, the gross margins for our packaging and testing services and our total gross margin. Gross margin is calculated by dividing gross profits by net sales.

| | Year Ended December | |
|----------------|------------------------|-------|
| | 2002 | 2003 |
| | (percentage of net rev | |
| ROC GAAP: | | |
| Gross margin | | |
| Packaging..... | 17.6% | 17.7% |
| Testing..... | 8.4 | 23.5 |
| Overall..... | 15.6% | 18.9% |

The following table sets forth, for the periods indicated, a breakdown of our total cost of revenues and operating expenses, expressed as a percentage of net revenues.

| | Year Ended December | |
|--------------------|-----------------------|-------|
| | 2002 | 2003 |
| | (percentage of net re | |
| ROC GAAP: | | |
| Cost of revenues | | |
| Raw materials..... | 30.2% | 28.8% |
| Labor..... | 14.8 | 15.1 |
| Depreciation..... | 24.9 | 20.1 |
| Others..... | 14.5 | 17.1 |

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| | Year Ended December | |
|-------------------------------------|------------------------------|-------|
| | 2002 | 2003 |
| | (percentage of net revenues) | |
| Total cost of revenues..... | 84.4% | 81.1% |
| Operating expenses | | |
| Selling..... | 2.0% | 2.1% |
| General and administrative (1)..... | 6.1 | 5.6 |
| Goodwill amortization (2)..... | 1.8 | 1.4 |
| Research and development..... | 4.5 | 4.1 |
| Total operating expenses..... | 14.4% | 13.2% |

- (1) Excludes goodwill amortization for purposes of this table only.
(2) Included in general and administrative expense in the consolidated financial statements.

Year Ended December 31, 2004 Compared to Year Ended December 31, 2003

Net Revenues. Net revenues increased 42.6% to NT\$81,712.6 million (US\$2,574.5 million) in 2004 from NT\$57,311.8 million in 2003. Packaging revenues increased 43.8% to NT\$64,736.8 million (US\$2,039.6 million) in 2004 from NT\$45,026.9 million in 2003. Testing revenues increased 35.7% to NT\$16,473.9 million (US\$519.1 million) in 2004 from NT\$12,142.4 million in 2003. The increase in packaging revenues was primarily due to an increase in packaging volume. The increase in testing revenues was primarily due to an increase in testing volume, which was partially offset by a decrease in the average selling prices for testing services. The increase in packaging and testing volume resulted primarily from the recovery in the semiconductor industry and the increase in outsourcing of the packaging and testing of semiconductor devices. The decrease in the average selling prices for testing services reflected the general trend in the semiconductor industry of declining prices for testing services.

Gross Profit. Gross profit increased 50.0% to NT\$16,265.5 million (US\$512.5 million) in 2004 from NT\$10,845.3 million in 2003. Our gross margin increased to 19.9% in 2004 compared to 18.9% in 2003. This increase was primarily a result of a decrease in depreciation and raw material costs, partially offset by increases in rental expense and cost of wafers, testing and materials, all as a percentage of net revenues. Our gross margin for packaging increased to 18.3% in 2004 from 17.7% in 2003. This increase was primarily due to a decrease in raw material costs and depreciation, partially offset by an increase in factory supplies and components for use in modules, all as a percentage of packaging revenues. Our gross margin for testing increased to 26.3% in 2004 from 23.5% in 2003. This increase was primarily due to a decrease in depreciation, partially offset by an increase in rental expenses for testing equipment, all as a percentage of net revenues. Depreciation in 2004 was NT\$13,247.1 million (US\$417.4 million), compared to NT\$11,517.0 million in 2003. As a percentage of net revenues, however, depreciation decreased to 16.2% in 2004 from 20.1% in 2003, reflecting higher capacity utilization rates.

Operating Income. We had an operating income of NT\$7,551.2 million (US\$237.9 million) in 2004, compared to NT\$3,270.5 million in 2003. Operating

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expenses increased 15.0% to NT\$8,714.3 million (US\$274.6 million) in 2004, compared to NT\$7,574.8 million in 2003. The increase in operating expenses was primarily due to higher general and administrative expenses and, to a lesser extent, higher research and development expenses, partially offset by a decrease in selling expenses. General and administrative expense, excluding goodwill amortization, increased 31.7% to NT\$4,211.0 million (US\$132.8 million) in 2004 from NT\$3,196.6 million in 2003. This increase was primarily the result of an increase in our salaries and bonuses expense. General and administrative expense, excluding goodwill amortization, represented 5.1% of our net revenues in 2004, compared to 5.6% in 2003. Goodwill amortization was NT\$877.6 million (US\$27.6 million) in 2004 compared to NT\$819.3 million in 2003. Goodwill amortization represented 1.1% of our net revenues in 2004, compared to 1.4% in 2003. Research and development expense increased 9.8% to NT\$2,584.5 million (US\$81.4 million) in 2004 from NT\$2,354.0 million in 2003. This increase was primarily a result of increases in our salaries and bonuses expense and the cost of maintaining our research and development equipment. Research and development expense accounted for 3.2% of our net revenues in 2004, compared to 4.1% in 2003. Selling expense decreased 13.6% to NT\$1,041.2 million (US\$32.8 million) in 2004 from NT\$1,204.9 million in 2003. This decrease was primarily due to decreased commission and fee payments to our sales and customer service agents following our acquisition of ASE (U.S.) Inc.,

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which was previously our agent providing customer service and after-sales support to our customers in Europe and North America. See "Item 4. Information on the Company--Business Overview--Sales and Marketing--Sales and Customer Service Agents". Selling expense represented 1.3% of our net revenues in 2004, compared to 2.1% in 2003. Operating margin increased to 9.2% in 2004 from 5.7% in 2003, primarily as a result of a decrease in our operating expenses as a percentage of net revenues. Such decrease resulted primarily from the significant increase in our net revenues while most components of our operating expenses did not increase as significantly, reflecting efficiencies realized from increased scale of operations and the acquisition of ASE (U.S.) Inc.

Net Non-Operating Income (Expense). We incurred a net non-operating expense of NT\$4,019.4 million (US\$126.6 million) in 2004, compared to a net non-operating expense of NT\$1,782.7 million in 2003. This overall increase was primarily a result of an impairment of goodwill under ROC GAAP, other investment loss and a decrease in our gain on sales of investments, partially offset by a decrease in our interest expense and a decrease in our realized loss on long-term investments. Pursuant to our yearly review of goodwill under ROC GAAP, we determined that NT\$1,950.1 million (US\$61.4 million) of our goodwill relating to our purchase of shares of ISE Labs and ASE Test was impaired in 2004, compared to zero in 2003. Our other investment loss also increased to NT\$512.0 million (US\$16.1 million) in 2004 from zero in 2003 after we determined that some of the goodwill relating to our affiliate, Universal Scientific, was impaired. Our gain on sale of investment decreased 90.8% to NT\$57.1 million (US\$1.8 million) in 2004, compared to NT\$618.9 million in 2003. Net interest expense decreased 31.1% to NT\$898.7 million (US\$28.3 million) in 2004 from NT\$1,304.7 million in 2003, primarily due to lower interest rates on our bank loans. Our realized loss on long-term investments decreased to zero in 2004 from NT\$354.8 million in 2003. We recorded net other non-operating expense of NT\$174.5 million (US\$5.5 million) in 2004, compared to net other non-operating expense of NT\$114.6 million in 2003.

Net Income. We had a net income of NT\$4,209.7 million (US\$132.6 million) in 2004, compared to a net income of NT\$2,742.8 million in 2003. Our net income per ADS was NT\$5.31 (US\$0.17) in 2004, compared to a net income per ADS of NT\$3.65

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in 2003 (retroactively adjusted to account for stock dividends issued in 2004). We had an income tax benefit of NT\$1,396.3 million (US\$44.0 million) in 2004, compared to an income tax benefit of NT\$1,278.1 million in 2003, primarily as a result of tax credits resulting from an increase in capital expenditures relating to our facilities in Kaohsiung, Taiwan.

Year Ended December 31, 2003 Compared to Year Ended December 31, 2002

Net Revenues. Net revenues increased 25.7% to NT\$57,311.8 million in 2003 from NT\$45,586.8 million in 2002. Packaging revenues increased 26.8% to NT\$45,026.9 million in 2003 from NT\$35,515.4 million in 2002. Testing revenues increased 20.7% to NT\$12,142.4 million in 2003 from NT\$10,060.6 million in 2002. The increase in packaging revenues was primarily due to an increase in packaging volume. The increase in testing revenues was primarily due to an increase in testing volume, which was partially offset by a decrease in the average selling prices for testing services. The increase in packaging and testing volume resulted primarily from the recovery in the semiconductor industry and the increase in outsourcing of the packaging and testing of semiconductor devices. This increase was tempered in part by adverse global political and economic conditions as well as the impact of the outbreak of SARS in the first half of 2003. The decrease in the average selling prices for testing services reflected the general trend in the semiconductor industry of declining prices for testing services.

Gross Profit. Gross profit increased 52.9% to NT\$10,845.3 million in 2003 from NT\$7,094.6 million in 2002. Our gross margin increased to 18.9% in 2003 compared to 15.6% in the comparable period in 2002. This increase was primarily a result of a decrease in depreciation and raw material costs, partially offset by an increase in factory supplies, all as a percentage of net revenues. Our gross margin for packaging increased slightly to 17.7% in 2003 from 17.6% in 2002. This increase was primarily due to a decrease in raw material costs and depreciation, which was partially offset by an increase in factory supplies and components for use in modules, all as a percentage of packaging revenues. Our gross margin for testing increased to 23.5% in 2003 from 8.4% in 2002. This increase was primarily due to higher utilization rates for our testers, which resulted in a decrease in depreciation as a percentage of testing revenues. Depreciation in 2003 was NT\$11,517.0 million, compared to NT\$11,366.9 million in 2002. As a percentage of net revenues, however, depreciation decreased to 20.1% in 2003 from 24.9% in 2002, reflecting higher capacity utilization rates.

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Operating Income (Loss). We had an operating income of NT\$3,270.5 million in 2003, compared to NT\$540.4 million in 2002. Operating margin was 5.7% in 2003, compared to 1.2% in 2002. Operating expenses increased 15.6% to NT\$7,574.8 million in 2003, compared to NT\$6,554.2 million in 2002. The increase in operating expenses was primarily due to higher selling, general and administrative, and research and development expenses. Selling expense increased 32.5% to NT\$1,204.9 million in 2003 from NT\$909.4 million in 2002. This increase was primarily due to increased commission and fee payments to our sales and customer service agents, reflecting increased sales. Selling expense represented 2.1% of our net revenues in 2003, compared to 2.0% in 2002. General and administrative expense, excluding goodwill amortization, increased 15.0% to NT\$3,196.6 million in 2003 from NT\$2,780.2 million in 2002. General and administrative expense, excluding goodwill amortization, represented 5.6% of our net revenues in 2003, compared to 6.1% in 2002. Goodwill amortization was NT\$819.3 million in 2003 compared to NT\$815.6 million in 2002. Goodwill amortization represented 1.4% of our net revenues in 2003, compared to 1.8% in 2002. Research and development expense increased 14.9% to NT\$2,354.0 million in

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2003 from NT\$2,049.0 million in the comparable period in 2002. This increase was primarily a result of an increase in the number of our research and development employees. Research and development expense accounted for 4.1% of our net revenues in 2003, compared to 4.5% of our net revenues in 2002.

Net Non-Operating Income (Expense). We incurred a net non-operating expense of NT\$1,782.7 million in 2003, compared to a net non-operating expense of NT\$3,250.1 million in 2002. This overall decrease was primarily a result of an asset impairment charge of NT\$1,225.6 million which was recorded as an impairment of long-lived assets in 2002, but for which there was no similar charge in 2003, and to a lesser degree, a decrease in net interest expense and an increase in gain on disposal of investments, which was partially offset by an increase in realized loss on long-term investments. Net interest expense decreased 17.4% to NT\$1,304.7 million in 2003 from NT\$1,578.6 million in 2002, primarily due to lower interest rates on our bank loans and NT\$511.5 million in interest income recognized in connection with the redemption of the US\$160 million 1% guaranteed convertible notes due 2004 issued by ASE Test through its finance subsidiary. We recorded a realized loss on long-term investments of NT\$354.8 million in 2003 due to the recognition of a loss on the sale of our common shares by our wholly-owned subsidiary ASE Capital Inc. in connection with our ADS offering in June 2003.

Net Income (Loss). We had a net income of NT\$2,742.8 million in 2003, compared to a net income of NT\$129.0 million in 2002. Our net income per ADS was NT\$3.65 in 2003, compared to a net income per ADS of NT\$0.18 per ADS in 2002. We had an income tax benefit of NT\$1,278.1 million in 2003, compared to an income tax benefit of NT\$1,140.3 million in 2002, primarily as a result of tax credits resulting from an increase in capital expenditures relating to our facilities in Kaohsiung, Taiwan.

Quarterly Net Revenues, Gross Profit and Gross Margin

The following table sets forth our unaudited consolidated net revenues, gross profit and gross margin for the quarterly periods indicated. You should read the following table in conjunction with the consolidated financial statements and related notes included in this annual report. Our net revenues, gross profit and gross margin for any quarter are not necessarily indicative of the results for any future period. Our quarterly net revenues, gross profit and gross margin may fluctuate significantly.

| | Quarter Ended | | | | | |
|----------------------------------|------------------|-------------------|------------------|------------------|------------------|-------------------|
| | Jun. 30, 2003 | Sept. 30, 2003 | Dec. 31, 2003 | Mar. 31, 2004 | Jun. 30, 2004 | Sept. 30, 2004 |
| | NT\$ | NT\$ | NT\$ | NT\$ | NT\$ | NT\$ |
| | (in millions) | | | | | |
| Consolidated Net Revenues | | | | | | |
| Packaging..... | 9,986.6 | 11,420.1 | 14,598.6 | 13,745.0 | 16,131.7 | 17,249.6 |
| Testing..... | 2,752.3 | 3,065.7 | 3,789.7 | 3,418.5 | 4,101.6 | 4,596.5 |
| Others..... | 33.9 | 38.8 | 41.7 | 57.4 | 57.0 | 176.3 |
| Total..... | 12,772.8 | 14,524.6 | 18,430.0 | 17,220.9 | 20,290.3 | 22,022.4 |
| Consolidated Gross Profit | | | | | | |
| Packaging | 1,437.5 | 2,018.0 | 3,368.9 | 2,885.4 | 3,263.4 | 3,101.9 |
| Testing..... | 531.6 | 758.8 | 1,209.6 | 853.6 | 1,188.8 | 1,295.0 |
| Others..... | 1.1 | 6.0 | 2.7 | 29.7 | 16.8 | 38.6 |
| Total..... | 1,970.2 | 2,782.8 | 4,581.2 | 3,768.7 | 4,469.0 | 4,435.5 |

| | Quarter Ended | | | | | |
|---------------------------|------------------|-------------------|------------------|------------------|------------------|-------------------|
| | Jun. 30, 2003 | Sept. 30, 2003 | Dec. 31, 2003 | Mar. 31, 2004 | Jun. 30, 2004 | Sept. 30, 2004 |
| | NT\$ | NT\$ | NT\$ | NT\$ | NT\$ | NT\$ |
| | (in millions) | | | | | |
| Consolidated Gross Margin | | | | | | |
| Packaging..... | 14.4% | 17.7% | 23.1% | 21.0% | 20.2% | 18.0% |
| Testing..... | 19.3% | 24.8% | 31.9% | 25.0% | 29.0% | 28.2% |
| Overall..... | 15.4% | 19.2% | 24.9% | 21.9% | 22.0% | 20.1% |

Our results of operations have been adversely affected by the global semiconductor industry downturn which commenced in the fourth quarter of 2000 and continued through the fourth quarter of 2001. Beginning the second quarter of 2002, we experienced an improvement in our net revenues as a result of a modest recovery in the semiconductor industry. However, in the first quarter of 2003, our net revenues were adversely affected by global political and economic conditions. To a lesser extent, our results of operations have also been affected by seasonality. Our first quarter net revenues have historically decreased over the preceding fourth quarter, primarily due to the combined effects of holidays in the United States, Taiwan and elsewhere in Asia. Moreover, the increase or decrease in net revenues of a particular quarter as compared with the immediately preceding quarter varies significantly. See "Item 3. Key Information--Risk Factors--Risks Relating to Our Business--Our operating results are subject to significant fluctuations, which could adversely affect the market value of your investment."

Our testing operations historically have higher gross margins than our packaging operations. However, during periods of lower-than-normal capacity utilization, such as the full year of 2002 and the first quarter of 2005, our testing operations have experienced lower gross margins than our packaging operations.

Exchange Rate Fluctuations

For a quantitative and qualitative disclosure of our exposure to foreign currency exchange rate risk, see "Item 11. Quantitative and Qualitative Disclosures about Market Risk--Market Risk--Foreign Currency Exchange Rate Risk".

Taxation

The regular corporate income tax rate in the ROC applicable to us is 25%. Under the ROC Statute of Upgrading Industries, which gives certain preferential tax treatment to companies that qualify as operating in an "important technology industry", we have two five-year tax exemptions on income derived from the packaging of BGA products, as well as other products, which expire at the end of 2005 and 2007. We also received two five-year tax exemptions, one that expired at the end of 2004 and one that will expire at the end of 2007, on income

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derived from a portion of our Chung Li manufacturing, processing and testing operations. ASE Test Taiwan has one five-year tax exemption that will expire in December 2005 on income derived from a portion of its testing operations. We are currently in the process of applying for additional five-year exemptions under the ROC Statute for Upgrading Industries. In addition, ASE Test Malaysia qualified as a "pioneer" company in Malaysia and enjoyed a tax exemption which expired on June 30, 1999. ASE Test Malaysia subsequently obtained the status of "high-tech pioneer" and was granted a five-year tax exemption which expired on June 30, 2004. These tax exemptions resulted in tax savings for us of approximately NT\$642.3 million (US\$20.2 million), NT\$481.2 million and NT\$52.1 million in 2004, 2003 and 2002, respectively. In order to qualify for a more beneficial reinvestment allowance, ASE Test Malaysia applied for and was granted cancellation of its pioneer status, which was deemed to have been cancelled on September 21, 2002. ASE Test Malaysia's current reinvestment allowance applies to certain of our qualifying equipment and allows us to reduce our tax payments on income from our operations that use such equipment until we use up such allowance.

We also have tax credits under the ROC Statute for Upgrading Industries. Under the previous tax credit rules, we obtained a tax credit of 20% for the purchase of equipment manufactured in Taiwan and 10% for the purchase of equipment manufactured outside Taiwan. In July and December 2004, the ROC Executive Yuan amended the tax credit rules and adopted tax credits ranging from 5% to 13% to be applied to the purchase of equipment regardless of where it was manufactured.

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Under the ROC Statute for Upgrading Industries, we may apply for additional tax holidays covering the portion of our income allocable to eligible machinery and equipment upon receipt of a cash infusion from our shareholders, including through rights offerings, if the proceeds of which are used to purchase eligible machinery and equipment. We may also apply for this tax holiday after the capitalization of retained earnings through the issuance of stock dividends. See note 21 to our consolidated financial statements.

In addition, since we have facilities located in special export zones such as the Nantze Export Processing Zone in Taiwan and the Bayan Lepas Free Industrial Zone in Malaysia, we enjoy exemptions from various import duties and commodity taxes on imported machinery, equipment, raw materials and components. Goods produced by companies located in these zones and exported or sold to others within the zones are exempt from otherwise applicable commodity or business taxes.

Our effective income tax rate was 0% in 2004 and 2003 primarily as a result of tax credits generated from qualifying equipment purchases made at our facilities in Kaohsiung, Taiwan and 0% in 2002 because we incurred a net loss before income tax, minority interests and extraordinary loss.

We generated additional tax credits in 2004, 2003 and 2002 and believe that the future estimated taxable income will be sufficient to realize the current and long-term portion of our net deferred tax assets recorded as of December 31, 2004, 2003 and 2002.

Under the ROC Income Tax Law, all retained earnings generated in a year which are not distributed to shareholders as dividends in the following year will be assessed a 10% retained earnings tax. As a result, if we do not distribute all of our annual retained earnings as either cash or stock dividends in the following year, these earnings will be subject to the 10% retained

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earnings tax.

Inflation

We do not believe that inflation in Taiwan or elsewhere has had a material impact on our results of operations.

U.S. GAAP Reconciliation

Our financial statements are prepared in accordance with ROC GAAP, which differ in certain material respects from U.S. GAAP. The following table sets forth a comparison of our net income and shareholders' equity in accordance with ROC GAAP and U.S. GAAP as of and for the periods indicated.

| | As of and For the Year Ended December 31, | | | |
|-----------------------|---|-----------------------|----------|---------|
| | 2002 | 2003 | 2004 | |
| | NT\$ | NT\$ (in millions) | NT\$ | US\$ |
| Net income (loss): | | | | |
| ROC GAAP..... | 129.0 | 2,742.8 | 4,209.7 | 132.6 |
| U.S. GAAP..... | (3,074.3) | 2,352.0 | 4,297.1 | 135.4 |
| Shareholders' equity: | | | | |
| ROC GAAP..... | 39,430.7 | 45,122.6 | 51,311.8 | 1,616.6 |
| U.S. GAAP..... | 35,716.8 | 42,083.0 | 48,646.6 | 1,532.7 |

Note 29 to the consolidated financial statements provides a description of the principal differences between ROC GAAP and U.S. GAAP as they relate to us and a reconciliation to U.S. GAAP of select items, including net income and shareholders' equity. Differences between ROC GAAP and U.S. GAAP, which primarily affect our net income as reported under ROC GAAP, relate to impairment of goodwill and long-term investments and compensation expense pertaining to bonuses to employees, directors and supervisors.

Effective January 1, 2002, we adopted U.S. SFAS No. 142, "Goodwill and Other Intangible Assets", which requires that goodwill no longer be amortized, and instead, be tested for impairment annually or more frequently if events or changes in circumstances indicate that the asset might be impaired. In conjunction with the implementation of U.S. SFAS No. 142, we completed a goodwill impairment review as of January 1, 2002 in accordance with the provisions of the standard and found no impairment. SFAS No. 142 also requires companies to

discontinue amortizing goodwill and other indefinite lived assets beginning January 1, 2002. This resulted in a decrease in amortization of approximately NT\$877.6 million (US\$27.6 million), NT\$819.3 million and NT\$815.6 million in 2004, 2003 and 2002, respectively, which continues to be recorded for ROC GAAP purposes. Under U.S. GAAP, we completed our annual goodwill impairment tests as of December 31, 2002 and determined that NT\$2,213.0 million of the goodwill attributable to shares of ASE Test was impaired and accordingly wrote off the full amount of the goodwill. No impairment charges were recorded for goodwill, attributable to other reporting units, for the year ended December 31, 2003. For the year ended December 31, 2004, we took an impairment charge under U.S. GAAP of NT\$1,337.7 million (US\$42.1 million) relating to our purchase of shares of ISE Labs.

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For the year ended December 31, 2004, we adopted ROC SFAS No. 35, "Impairment of Assets". In addition to yearly amortization, under ROC SFAS No. 35, goodwill is evaluated at least annually to determine if it is impaired. As a result of our annual impairment review, under ROC GAAP we recognized an impairment charge of NT\$1,950.1 million (US\$61.4 million) for goodwill relating to our purchase of shares of ASE Test and ISE Labs. See note 10 to the consolidated financial statements.

ROC GAAP and U.S. GAAP require an assessment of impairment of long-term investments whenever events or circumstances indicate a decline in value may be other-than-temporary. The criteria for determination are similar under ROC GAAP and U.S. GAAP. However, the methods to measure the amount of impairment may be based on different estimates of fair values depending on the circumstances. When impairment is determined to have occurred, U.S. GAAP requires the market price to be used, if available, to determine the fair value of the long-term investment and measure the amount of impairment at the reporting date. Under ROC GAAP, if the market price is deemed to be a result of an inactive market, another measure of fair value may be used. As such, when determining whether an other-than-temporary impairment occurred in our long-term investment in Hung Ching as of December 31, 2002, the fair value, under ROC GAAP, was based on the difference between the carrying value and the net-asset value of Hung Ching with adjustments made to significant assets of Hung Ching using appraised values and other appropriate information. Using this method under ROC GAAP, we determined that no impairment occurred in our long-term investment in Hung Ching in 2002. Under U.S. GAAP, we determined an other-than-temporary impairment occurred in our long-term investment in Hung Ching as of December 31, 2002 in the amount of NT\$883.6 million. We did not record any impairment charge for long-term investments in 2003. For the year ended December 31, 2004, under U.S. GAAP we took an impairment charge of NT\$1,707.0 million (US\$53.8 million) relating to our investment in Universal Scientific.

We typically pay all or a portion of employee bonuses in the form of common shares. The number of common shares distributed as part of employee bonuses is obtained by dividing the total nominal NT dollar amount of the bonus to be paid in the form of common shares by the par value of the common shares, or NT\$10 per share, rather than their market value, which has generally been substantially higher than par value. We paid employee bonuses in 2004 in the form of common shares with respect to the results of the preceding fiscal year. We did not pay any employee bonuses in the form of common shares in 2003 or 2002 because we had minimal net income in 2002 and incurred a net loss in 2001. Under ROC GAAP, the distribution of employee bonus shares is treated as an allocation from retained earnings, and we are not required to, and do not, charge the value of the employee bonus shares to employee compensation expense. Under U.S. GAAP, however, we are required to charge the market value of the employee bonus shares to employee compensation expense in the period to which they relate, and correspondingly reduce our net income and income per common share. See "Item 6. Directors, Senior Management and Employees--Compensation--ASE Inc. Employee Bonus and Stock Option Plans".

The amount and the form of the payment of this compensation is subject to approval at our annual general shareholders' meeting. Under U.S. GAAP, the compensation expense is initially accrued at the nominal NT dollar amount of the aggregate bonus in the period to which it relates. For U.S. GAAP purposes, the difference between the amount initially accrued and the market value of the common shares issued as payment of all or any part of the bonus is recorded as employee compensation expense in the period in which shareholders' approval is obtained, which normally occurs during the second quarter of each year.

Recent U.S. GAAP Accounting Pronouncements

In March 2004, the Emerging Issues Task Force, or EITF, reached a consensus

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on EITF 03-1, "The Meaning of Other-Than-Temporary Impairment and Its Application to Certain Investments". The consensus was that certain

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quantitative and qualitative disclosure should be required for debt and marketable equity securities classified as available-for-sale or held-to-maturity under SFAS Nos. 115 and 124 that are impaired at the balance sheet date but for which an other-than-temporary impairment has not been recognized. This EITF consensus is effective for fiscal years ending after December 15, 2003. Adoption of the EITF consensus did not result in an impact on our financial position, results of operations or cash flows.

In November 2004, the FASB issued SFAS No. 151, "Inventory Costs - An Amendment of ARB No. 43, Chapter 4". SFAS No. 151 clarifies the accounting that requires abnormal amounts of idle facility expenses, freight, handling costs and spoilage costs to be recognized as current-period charges. It also requires that allocation of fixed production overhead to the costs of conversion be based on the normal capacity of the production facilities. SFAS No. 151 will be effective for inventory costs incurred on or after July 1, 2005. We are currently evaluating the impact of this standard on our consolidated financial statements.

In December 2004, the FASB issued SFAS No. 123R, "Share-Based Payment". This statement is a revision of SFAS No. 123 and supercedes APB Opinion No. 25. This statement establishes standards for the accounting of transactions in which an entity exchanges its equity instruments for goods or services, primarily focusing on the accounting for transactions in which an entity obtains employee services in share-based payment transactions. Entities will be required to measure the cost of employee services received in exchange for an award of equity instruments based on the grant-date fair value of the award (with limited exceptions). That cost will be recognized over the period during which an employee is required to provide service, the requisite service period (usually the vesting period), in exchange for the award. The grant-date fair value of employee share options and similar instruments will be estimated using option-pricing models. If an equity award is modified after the grant date, incremental compensation cost will be recognized in an amount equal to the excess of the fair value of the modified award over the fair value of the original award immediately before the modification. This statement is effective as of the beginning of the first interim or annual reporting period that begins after January 1, 2006.

Upon adoption, we have two application methods to choose from: the modified-prospective transition approach or the modified-retrospective transition approach. Under the modified-prospective transition method, we would be required to recognize compensation cost for:

- o share-based awards to employees based on their grant-date fair value from the beginning of the fiscal period in which the recognition provisions are first applied; and
- o awards that were granted prior to, but not vested as of the date of adoption.

Prior periods remain unchanged and pro forma disclosures previously required by SFAS No. 123 continue to be required. Under the modified-retrospective transition method, we would restate prior periods by recognizing compensation cost in the amounts previously reported in the pro forma footnote disclosure under SFAS No. 123. Under this method, we are permitted to apply this presentation to all periods presented or to the start of the fiscal year in

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which SFAS No. 123R is adopted. We would follow the same guidelines as in the modified-prospective transition method for awards granted subsequent to adoption and those that were granted and not yet vested. We have not yet determined which methodology we will adopt but we believe that the impact the adoption of SFAS No. 123R will have on our financial position or results of operations will approximate the magnitude of our stock-based employee compensation cost disclosed in note 30 to our consolidated financial statements pursuant to the disclosure requirements of SFAS No. 148.

In December 2004, the FASB issued SFAS No. 153, "Exchanges of Non-Monetary Assets - An Amendment of APB Opinion No. 29", or SFAS No. 153. The amendments made by SFAS No. 153 are based on the principle that exchanges of non-monetary assets should be measured based on the fair value of the assets exchanged. Further, the amendments eliminate the exception for non-monetary exchanges of similar productive assets and replace it with a general exception for exchanges of non-monetary assets that do not have commercial substance. The provisions in SFAS No. 153 are effective for non-monetary asset exchanges occurring in fiscal periods beginning after June 15, 2005 (July 1, 2005 for us). Early application of the SFAS No. 153 is permitted. The provisions of this Statement shall be applied prospectively. We do not expect the adoption of SFAS No. 153 to have a material effect on our financial statements or our results of operations.

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LIQUIDITY AND CAPITAL RESOURCES

We have historically been able to satisfy our working capital needs from our cash flow from operations. We have historically funded our capacity expansion from internally generated cash and, to the extent necessary, the issuance of equity securities and long-term borrowings. If adequate funds are not available on satisfactory terms, we may be forced to curtail our expansion plans. Moreover, our ability to meet our working capital needs from cash flow from operations will be affected by the demand for our packaging and testing services, which in turn may be affected by several factors. Many of these factors are outside of our control, such as economic downturns and declines in the prices of our services caused by a downturn in the semiconductor industry. See "Item 3. Key Information--Risk Factors--Risks Relating to Our Business--Our operating results are subject to significant fluctuations, which could adversely affect the market value of your investment." The average selling prices of our packaging and testing services are likely to be subject to further downward pressure in the future. To the extent we do not generate sufficient cash flow from our operations to meet our cash requirements, we will have to rely on external financing. We have not historically relied, and we do not plan to rely in the foreseeable future, on off-balance sheet financing arrangements to finance our working capital or capacity expansion.

Net cash provided by operating activities amounted to NT\$19,487.0 million (US\$614.0 million) in 2004, partially as a result of adjusting for non-cash depreciation and amortization, including amortization of goodwill, and to a lesser extent, as a result of adjusting for the impairment of goodwill and long-term investment of NT\$18,126.0 million (US\$571.1 million). Net cash provided by operating activities amounted to NT\$13,306.2 million in 2003, partially as a result of adjusting for non-cash depreciation and amortization, including amortization of goodwill, of NT\$13,585.9 million. Net cash provided by operating activities amounted to NT\$11,313.8 million in 2002, partially as a result of adjusting for non-cash depreciation and amortization, including amortization of goodwill, of NT\$13,101.9 million. The increase in net cash generated by operating activities in 2004 compared to 2003 was primarily due to a significant increase in net income to NT\$4,209.7 million (US\$132.6 million) in

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2004 from NT\$2,742.8 million in 2003 and non-cash depreciation, amortization and impairment of goodwill and long-term investment to NT\$18,126.0 million (US\$571.1 million) in 2004 from NT\$13,585.9 million in 2003. The increase in net cash generated by operating activities in 2003 compared to 2002 was primarily due to a significant increase in net income from NT\$129.0 million in 2002 to NT\$2,742.8 million in 2003, and adjustments for loss on long-term investments of NT\$354.8 million in 2003 due to the recognition of a loss for the sale of our common shares by our wholly-owned subsidiary ASE Capital Inc. in connection with our ADS offering in June 2003. Depreciation and amortization increased in 2002 and 2003 compared to the prior year primarily due to an increase in capital expenditure in 2002 and the first half of 2003.

Net cash used in investing activities amounted to NT\$30,825.3 million (US\$971.2 million) in 2004, primarily as a result of the acquisition of properties, such as machinery and equipment for our packaging, testing and interconnect materials operations, of NT\$28,523.5 million (US\$898.7 million). Net cash used in investing activities amounted to NT\$18,572.6 million in 2003, primarily as a result of the acquisition of properties of NT\$17,534.1 million. Net cash used in investing activities amounted to NT\$13,719.7 million in 2002, primarily due to the acquisition of properties of NT\$12,657.9 million and the purchases of ASE Test shares and ISE Labs shares of NT\$2,072.1 million.

Net cash provided by financing activities in 2004 was NT\$9,166.3 million (US\$288.8 million). This amount reflected primarily an increase in long-term debt of NT\$5,997.2 million (US\$188.9 million), our issuance of domestic secured bonds of NT\$2,733.1 million (US\$86.1 million) and an increase in short-term borrowings of NT\$2,696.0 million (US\$84.9 million), which was partially offset by investments payable of NT\$2,310.0 million (US\$72.8 million). Net cash provided by financing activities in 2003 was NT\$4,210.9 million. This amount reflected proceeds from the sale of our common shares of NT\$2,850.5 million and proceeds of NT\$6,684.9 million from the issuance of our zero coupon convertible bonds due 2008, which was partially offset by the early redemption of foreign convertible bonds issued by ASE Test through a finance subsidiary totaling NT\$4,908.4 million. Net cash provided by financing activities in 2002 amounted to NT\$530.5 million. This amount reflected proceeds from short-term and long-term debt of NT\$3,536.8 million, which was partially offset by the reduction in commercial papers and bank acceptances payable of NT\$1,739.3 million, and payment of NT\$1,674.1 million for the repurchase of the remaining outstanding portion of our US\$200 million zero coupon convertible bonds due 2002.

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As of December 31, 2004, our primary source of liquidity was NT\$5,975.1 million (US\$188.3 million) of cash and cash equivalents and NT\$3,194.2 million (US\$100.6 million) of short-term investments. Our short-term investments primarily consisted of investments in fixed income mutual funds. As of December 31, 2004, we had total unused short-term credit lines of NT\$12,877.0 million (US\$405.7 million), and total unused long-term credit lines of NT\$1,793.0 million (US\$56.5 million). As of December 31, 2004, we had working capital of NT\$10,691.0 million (US\$336.8 million).

As of December 31, 2004, we had total borrowings of NT\$53,382.4 million (US\$1,681.9 million), NT\$4,642.3 million (US\$146.3 million) of which were short-term borrowings and NT\$48,740.1 million (US\$1,535.6 million) of which were long-term borrowings. The interest rate for borrowings under our short-term borrowings ranged from 0.6% to 7.0% per year as of December 31, 2004. All of our short-term loans are revolving facilities with a term of one year, each of which may be extended on an annual basis with lender consent. Our long-term borrowings

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consist primarily of bank loans and bonds payable. As of December 31, 2004, we had outstanding long-term borrowings, less current portion, of NT\$46,529.6 million (US\$1,466.0 million). As of December 31, 2004, the current portion of our long-term borrowings was NT\$2,210.5 million (US\$69.6 million). Our long-term borrowings carried variable interest rates which ranged between 1.2% and 11.0% per year as of December 31, 2004.

We have pledged a portion of our assets, with a carrying value of NT\$11,423.1 million (US\$359.9 million) as of December 31, 2004, to secure our obligations under our short-term and long-term facilities.

We have also entered into a lease receivables purchase facility agreement in connection with our leasing of testing equipment. In August 2004, we, along with ASE Test Taiwan, entered into an agreement with a syndicate of banks arranged by Citibank, N.A., Taipei Branch whereby such syndicate agrees to purchase up to US\$90.0 million of qualifying lease receivables from eligible leasing companies for twelve months from the date of the agreement. As evidence of the obligations entered into under the transaction, we and ASE Test Taiwan are required to issue promissory notes to such leasing companies that are indorsed to Citibank, N.A., Taipei Branch. The leasing companies also execute a mortgage agreement granting Citibank N.A., Taipei Branch a mortgage on the leased equipment.

In connection with ASE Chung Li's merger into us in August 2004, we assumed the remaining NT\$914.2 million (US\$28.8 million) of a NT\$4.0 billion syndicated bank loan which ASE Chung Li originally entered into in November 2000. The loan is due in May 2006, and we were in compliance with the loan's covenants as of December 31, 2004.

In January 2004, we issued eleven series of secured non-convertible bonds in the aggregate principal amount of NT\$2.75 billion (US\$86.6 million). These bonds bear semi-annual interest at floating LIBOR-based rates. We are required to repay half of the aggregate principal amount of the bonds in January 2008 with the remaining due in January 2009. Our payment obligations under the bonds are secured by guarantees provided by syndicate banks pursuant to a guarantee agreement entered into in December 2003, for which Chinatrust Commercial Bank, Ltd. and The Hongkong and Shanghai Banking Corporation Limited, Taipei Branch acted as arrangers.

In September 2003, we issued US\$200 million in aggregate principal amount of zero coupon convertible bonds due 2008. The convertible bonds are convertible into our common shares and ADSs. As of May 31, 2005, these convertible bonds are convertible into our common shares at a conversion price of NT\$35.53 per common share. As of May 31, 2005, none of the convertible bonds had been converted.

In September 2003, we entered into a NT\$7.0 billion five-year syndicated credit facility, for which Citibank, N.A., Taipei Branch acted as the lead manager. We used NT\$3.0 billion of the amount available to refinance our NT\$6.0 billion syndicated loan facility, for which Citibank, N.A., Taipei Branch acted as the lead manager, entered into on December 11, 2001. The remaining NT\$4.0 billion was used to fund our capital expenditure requirements.

In August 2003, ASE Test redeemed US\$159.9 million aggregate principal amount of the US\$160 million 1% guaranteed convertible notes due 2004 issued through its finance subsidiary. The early redemption of the US\$160 million 1% guaranteed convertible notes due 2004 was financed in part through a five-year syndicated credit facility entered into in June 2003 by ASE Test Finance Limited, a wholly-owned finance subsidiary of ASE Test. The total

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commitments under the facility totaled US\$150 million. In addition to ASE Inc., guarantees were also provided by ASE Test and ASE Test Taiwan for ASE Test Finance Limited's payment obligations under the facility.

In August 2003, ASE Test Finance Limited obtained a loan of US\$60.0 million from J&R Holding Limited in connection with the redemption of its convertible notes issued in 1999. The loan was originally due in February 2005 but was repaid in full in July 2004. In connection with the repayment of the loan to J&R Holding Limited in June 2004, ASE Test entered into a two-year revolving loan facility agreement for US\$30.0 million which was guaranteed by ASE Test Taiwan and, as of December 31, 2004, bears interest at 3.299%. Also in connection with the repayment of the loan to J&R Holding Limited, ASE Test Finance Limited entered into a credit facility for US\$30.0 million which was guaranteed by ASE Test and, as of December 31, 2004, bears interest at 3.52%. Both of these loans are due in June 2006.

In June 2003, our wholly-owned subsidiaries, ASE Investment Inc. and ASE Capital Inc., sold an aggregate of 32,757,600 of our ADSs. The net proceeds from the offering were approximately NT\$2,850.5 million. We used the net proceeds to repay our borrowings of an aggregate principal amount of NT\$6.0 billion, borrowings of ASE Investment Inc. in an aggregate principal amount of NT\$1.2 billion and borrowings of ASE Capital Inc. in an aggregate principal amount of NT\$150 million. In addition, pursuant to a merger agreement dated July 17, 2002, ASE Investment Inc. and ASE Capital Inc. merged with and into us on July 1, 2003, and we assumed all of the assets and liabilities of both ASE Investment Inc. and ASE Capital Inc.

In December 2002, we entered into a NT\$7.0 billion three-year syndicated credit facility, for which Citibank, N.A., Taipei Branch acted as the lead arranger. We used NT\$5.2 billion of the amount available under the facility to refinance a NT\$5.2 billion syndicated credit facility, for which Citibank, N.A., Taipei Branch acted as the lead arranger, entered into on June 22, 2001. The remaining NT\$1.8 billion was used to repay a portion of our existing revolving credit lines.

Our long-term loans and facilities contain various financial and other covenants that could trigger a requirement for early payment. Among other things, these covenants require the maintenance of certain financial ratios, such as liquidity ratio, indebtedness ratio, interest coverage ratio and other technical requirements. In general, covenants in the agreements governing our existing debt, and debt we may incur in the future, may materially restrict our operations, including our ability to incur debt, pay dividends, make certain investments and payments and encumber or dispose of assets. A default under one debt instrument may also trigger cross-defaults under our other debt instruments. An event of default under any debt instrument, if not cured or waived, could have a material adverse effect on our liquidity, as well as our financial condition and operations.

We have on occasion failed to comply with certain financial covenants in some of our loan agreements. Such non-compliance may also have, through broadly worded cross-default provisions, resulted in default under some of the agreements governing our other existing debt. For example, in 2004, in connection with increases in our capital expenditures, we borrowed more money which resulted in our failure to comply with certain debt ratios. We are in the process of obtaining waivers from the relevant lenders relating to such non-compliance. We cannot assure you that we will be able to obtain such waivers or that we will be able to otherwise remain in compliance with our financial covenants under our loan agreements. In the event of default, we may not be able to cure the default or obtain a waiver, and our operations could be significantly disrupted and harmed. See "Item 3. Key Information--Risk

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Factors--Risks Relating to Our Business--Restrictive covenants and broad default provisions in the agreements governing our existing debt may materially restrict our operations as well as adversely affect our liquidity, financial condition and results of operations."

Our contingent obligations consist of guarantees provided by us to our subsidiaries and affiliates. As of December 31, 2004, we endorsed and guaranteed the promissory notes of our subsidiaries and affiliates in the amount of NT\$11,382.7 million (US\$358.6 million). Other than such guarantees, we have no other contingent obligations. See note 25 to our consolidated financial statements.

We have made, and expect to continue to make, substantial capital expenditures in connection with the expansion of our production capacity. The table below sets forth our principal capital expenditures incurred for the periods indicated.

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| | Year Ended December 31, | | | |
|--------------------------------|-------------------------|----------|---------------|-------|
| | 2002 | 2003 | 2004 | |
| | NT\$ | NT\$ | NT\$ | US\$ |
| | | | (in millions) | |
| Machinery and equipment..... | 13,786.8 | 14,833.9 | 26,063.0 | 821.1 |
| Building and improvements..... | 1,963.0 | 2,400.4 | 4,525.3 | 142.6 |

We have budgeted capital expenditures of approximately NT\$11,109 million (US\$350 million) for 2005, primarily to purchase machinery and equipment in connection with the expansion of our packaging, testing, and interconnect materials operations. We may adjust the amount of our capital expenditures upward or downward based on market conditions, the progress of our expansion plans and cash flow from operations. Due to the rapid changes in technology in the semiconductor industry, we frequently need to invest in new machinery and equipment, which may require us to raise additional capital. We cannot assure you that we will be able to raise additional capital should it become necessary on terms acceptable to us or at all. See "Item 3. Key Information--Risk Factors--Risks Relating to Our Business--Because of the highly cyclical nature of our industry, our capital requirements are difficult to plan. If we cannot obtain additional capital when we need it, our growth prospects and future profitability may be adversely affected."

We believe that our existing cash and cash equivalents, short-term investments, expected cash flow from operations and existing credit lines under our short-term loan facilities will be sufficient to meet our capital expenditures, working capital, cash obligations under our existing debt and lease arrangements, and other requirements for at least the next twelve months. We currently hold cash and cash equivalents primarily in U.S. dollars, New Taiwan dollars and Malaysian Ringgit. See note 4 to our consolidated financial statements. As of December 31, 2004, we had contractual obligations of NT\$33,339.8 million (US\$1,050.4 million) due in the next three years. We intend to meet our payment obligations through the expected cash flow from operations, long-term borrowings and the issuance of additional equity or equity-linked securities. We will continue to evaluate our capital structure and may decide from time to time to increase or decrease our financial leverage through equity offerings or borrowings. The issuance of additional equity or equity-linked securities may result in additional dilution to our shareholders.

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From time to time, we evaluate possible investments, acquisitions or divestments and may, if a suitable opportunity arises, make an investment, acquisition or divestment. Other than disclosed elsewhere in this annual report, we currently have no commitments to make any material investment, acquisition or divestment.

Our treasury team, under the supervision of our chief financial officer, is responsible for setting our funding and treasury policies and objectives. Our exposure to financial market risks relate primarily to changes in interest rates and foreign currency exchange rates. To mitigate these risks, we utilize derivative financial instruments, the application of which is primarily to manage these exposures, and not for speculative purposes.

We have, from time to time, entered into interest rate swap transactions to hedge our interest rate exposure. As of December 31, 2004, we had US\$157.0 million and NT\$2,750.0 million (US\$86.6 million) outstanding interest rate swap transactions. See "Item 11. Quantitative and Qualitative Disclosures about Market Risk--Market Risk--Interest Rate Risk". We have entered into foreign currency option contracts and forward exchange contracts to hedge our existing assets and liabilities denominated in foreign currencies and identifiable foreign currency purchase commitments. As of December 31, 2004, we had US\$912.4 million outstanding in foreign currency option contracts and no forward exchange contracts outstanding. In October 2003, we entered into cross-currency swap contracts to hedge against reductions in value caused by changes in foreign currency exchange rates in connection with the proceeds received from our offering of US\$200.0 million zero coupon convertible bonds due 2008. See "Item 11. Quantitative and Qualitative Disclosures about Market Risk" and note 26 to the consolidated financial statements.

RESEARCH AND DEVELOPMENT

For 2004, 2003 and 2002, our research and development expenditures totaled approximately NT\$2,584.5 million (US\$81.4 million), NT\$2,354.0 million and NT\$2,049.0 million, respectively. These expenditures represented approximately 3.2%, 4.1% and 4.5% of net revenues in 2004, 2003 and 2002, respectively. We have

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historically expensed all research and development costs as incurred and none is currently capitalized. As of May 31, 2005, we employed 2,105 employees in research and development.

Packaging

We centralize our research and development efforts in packaging technology in our Kaohsiung, Taiwan facilities. After initial phases of development, we conduct pilot runs in one of our facilities before the new technologies or processes are implemented commercially at other sites. Facilities with special product expertise, such as ASE Korea, also conduct research and development of these specialized products and technologies at their sites. One of the areas of emphasis for our research and development efforts is improving the efficiency and technology of our packaging processes. We expect these efforts to continue. We are now also putting significant research and development efforts into the development and adoption of new technology. We work closely with the manufacturers of our packaging equipment, including Kulicke & Soffa Industries Inc., in designing and modifying the equipment used in our production process. We also work closely with our customers to develop new product and process

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technology.

A significant portion of our research and development efforts is also focused on the development of advanced substrate production technology for BGA packaging. Substrate is the principal raw material for BGA packages. Development and production of advanced substrates involve complex technology and, as a result, high quality substrates are currently available only from a limited number of suppliers, located primarily in Japan. We believe that our successful development of substrate production capability will, among other things, enable us to capture an increasingly important value-added component of the packaging process, help ensure a stable and cost-effective supply of substrates for our BGA packaging operations and shorten production time. See "Item 7. Major Shareholders and Related Party Transactions--Related Party Transactions".

Testing

Our research and development efforts in the area of testing have focused primarily on improving the efficiency and technology of our testing processes. The efforts include developing software for parallel testing of logic semiconductors, rapid automatic generation and cross-platform conversion of test programs to test logic/mixed-signal semiconductors, automatic code generation for converting and writing testing programs, testing new products using existing machines and providing customers remote access to monitor test results. We are also continuing the development of interface designs to provide for high-frequency testing by minimizing electrical noise. We work closely with our customers in designing and modifying testing software and with equipment vendors to increase the efficiency and reliability of testing equipment. Our research and development operations also include a mechanical engineering group, which currently designs handler kits for semiconductor testing and wafer probing, as well as software to optimize capacity utilization.

OFF-BALANCE SHEET ARRANGEMENTS

We have no off-balance sheet arrangements that have or are reasonably likely to have a material current or future effect on our financial condition, changes in financial condition, revenues or expenses, results of operations, liquidity, capital expenditures or capital resources.

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TABULAR DISCLOSURE OF CONTRACTUAL OBLIGATIONS

The following table sets forth the maturity of our contractual obligations as of December 31, 2004.

| | Payments Due by Period | | | |
|------------------------------------|------------------------|--------------|-----------------------|--------------|
| | Total | Under 1 Year | 1 to 3 Years | 3 to 5 Years |
| | NT\$ | NT\$ | NT\$ (in millions) | NT\$ |
| Contractual Obligations: | | | | |
| Long-term debt (1)..... | 48,343.8 | 2,011.7 | 25,305.6 | 20,728.9 |
| Capital lease obligations (2)..... | 396.3 | 198.8 | 195.6 | 1.9 |
| Operating leases (3)..... | 4,409.8 | 1,810.7 | 2,127.6 | 413.8 |
| Purchase obligations (4)..... | 1,689.8 | 1,689.8 | -- | -- |

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| | | | | |
|------------------------|----------|---------|----------|----------|
| Total (5) (6) (7)..... | 54,839.7 | 5,711.0 | 27,628.8 | 21,144.6 |
| | | | | |

-
- (1) Excludes interest payments.
 - (2) Represents our commitments under property leases less imputed interest. These obligations are recorded on our consolidated balance sheets. See note 16 to our consolidated financial statements.
 - (3) Represents our commitments under leases for land, machinery and equipment such as testers, and office buildings and equipment. See note 25 to our consolidated financial statements.
 - (4) Represents unpaid commitments for construction. These commitments are not recorded on our consolidated balance sheets as of December 31, 2004. See note 25 to our consolidated financial statements. Total commitments for construction of buildings were approximately NT\$3,264.0 million (US\$102.8 million), of which NT\$1,574.2 million (US\$49.6 million) had been paid as of December 31, 2004.
 - (5) Excludes payments that vary based upon our net sales or sales volume, such as commissions, service fees and royalty payments for technology license agreements. Commission and service fee expenses in 2004 were approximately NT\$769.6 million (US\$24.2 million). Royalty expenses in 2004 were approximately NT\$164.0 million (US\$5.2 million). See note 25 to our consolidated financial statements.
 - (6) Excludes non-binding commitments to purchase machinery and equipment of approximately NT\$7,600.0 million (US\$239.4 million) as of December 31, 2004.
 - (7) Excludes our minimum pension funding requirements since such amounts have not been determined. We made pension contributions of approximately NT\$133.4 million (US\$4.2 million) in 2004 and we estimate that we will contribute approximately NT\$215.2 million (US\$6.8 million) in 2005. See "--Operating Results and Trend Information--Critical Accounting Policies" and note 17 to our consolidated financial statements.

Item 6. Directors, Senior Management and Employees

DIRECTORS AND SENIOR MANAGEMENT AND BOARD PRACTICES

Directors

Our board of directors is elected by our shareholders in a general meeting at which a quorum, consisting of a majority of all issued and outstanding common shares, is present. The chairman is elected by the board from among the directors. Our six-member board of directors is responsible for the management of our business.

The term of office for our directors is three years from the date of election. The current board of directors began serving on June 19, 2003. The terms of the current directors will expire on June 18, 2006. Directors may serve any number of consecutive terms and may be removed from office at any time for a valid reason by a resolution adopted at a general meeting of shareholders. Normally, all board members are elected at the same time, except where the posts of one-third or more of the directors are vacant, at which time a special meeting of shareholders shall be convened to elect directors to fill the vacancies. We and our subsidiaries do not have service contracts with our

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directors that provide for benefits upon termination of employment.

Under Rule 10A-3 of the Exchange Act and the rules of the New York Stock Exchange, we are required to have an audit committee that meets certain requirements by July 31, 2005. We are currently in the process of reviewing examples of audit committee charters and considering candidates for appointment as audit committee members with a view to fully comply with these new requirements in the specified time period, including the appointment of an audit committee financial expert, as defined under Item 16A of Form 20-F.

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The following table sets forth information regarding all of our directors as of May 31, 2005.

| Name | Position | Director Since | Age | Other S Posit |
|----------------------------|---|----------------|-----|-----------------------------------|
| Jason C.S. Chang(1)..... | Director, Chairman and Chief Executive Officer | 1984 | 61 | Chairman of ASE ASE Test Taiw |
| Richard H.P. Chang(1)..... | Director, Vice Chairman and President | 1984 | 58 | Vice Chairman of of Universal |
| Joseph Tung(2)..... | Director and Chief Financial Officer | 1997 | 46 | Supervisor of Un Director of A |
| Chin Ko-Chien(2)..... | Director and Executive Vice President | 1997 | 59 | Director of ASE |
| Jeffrey Chen(2)..... | Director and Vice President | 2003 | 41 | Director of ASE |
| Tien Wu(2)..... | Director | 2003 | 47 | Chief Executive |

(1) Jason C.S. Chang and Richard H.P. Chang are brothers.

(2) Representative of ASE Enterprises, a company organized under the laws of Hong Kong, which held 17.77% of our outstanding common shares as of April 30, 2005. All of the outstanding shares of ASE Enterprises are held by a company organized under the laws of the British Virgin Islands in trust for the benefit of the family of our Chairman and Chief Executive Officer, Jason C.S. Chang, who is the sole shareholder and director of that company.

Supervisors

We currently have five supervisors, each serving a three-year term. The current supervisors began serving on June 15, 2004, and their terms will expire on June 14, 2007. The supervisors' duties and powers include investigation of our business condition, inspection of our corporate records, verification and review of financial statements presented by our board of directors at shareholders' meetings, convening of shareholders' meetings, representing us in negotiations with our directors and notification, when appropriate, to the board of directors to cease acting in contravention of any applicable law or regulation or in contravention of our Articles of Incorporation. Each supervisor is elected by our shareholders and cannot concurrently serve as a director, managerial officer or other staff member. The ROC Company Law requires at least one supervisor be appointed at all times, or two supervisors for a company with publicly issued equity shares, and that a supervisor's term of office be no more than three years.

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The following table sets forth information regarding all of our supervisors as of May 31, 2005.

| Name | Position | Supervisor Since | Age | Other S Posit |
|------------------------|------------|---------------------|-----|-----------------------------|
| Feng Mei-Jean(1) | Supervisor | 1984 | 50 | Supervisor of J& |
| Yen-Yi Tseng(2) | Supervisor | 2000 | 63 | Chairman of Hung |
| John Ho(2) | Supervisor | 1998 | 50 | Director of Univ |
| Raymond Lo(2) | Supervisor | 2000 | 51 | President of ASE |
| Samuel Liu(2) | Supervisor | 2005 | 57 | Chief Technical ASE Inc. |

-
- (1) Feng Mei-Jean is the wife of Richard H.P. Chang.
(2) Representative of ASE Enterprises.

In accordance with ROC law, each of our directors and supervisors is elected either in his or her capacity as an individual or as an individual representative of a corporation or government. Persons designated to represent corporate or government shareholders as directors are typically nominated by such shareholders at the annual general meeting and may be replaced as representatives by such shareholders at will. Of the current directors and supervisors, eight represent ASE Enterprises. The remaining directors and supervisors serve in their capacity as individuals.

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Executive Officers

The following table sets forth information regarding all of our executive officers as of May 31, 2005.

| Name | Position |
|-------------------------|---|
| Jason C.S. Chang..... | Chairman and Chief Executive Officer |
| Richard H.P. Chang..... | Vice Chairman and President |
| Chin Ko-Chien..... | Executive Vice President and General Manager, Kaohsiung packaging facility |
| Raymond Lo..... | President, ASE Test; President, ASE Test Taiwan |
| Joseph Tung..... | Chief Financial Officer |
| Fu-Sing Chang..... | President, ASE Test Malaysia |
| Sang Jin Maeng..... | President, ASE Korea |
| Tien Wu..... | Chief Executive Officer, ISE Labs |

Biographies of Directors, Supervisors and Executive Officers

Jason C.S. Chang has served as Chairman of ASE Inc. since its founding in March 1984 and as its Chief Executive Officer since May 2003. Mr. Chang is also the Chairman of ASE Test. He holds a degree in electrical engineering from

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National Taiwan University and a master's degree from the Illinois Institute of Technology. He is the brother of Richard H.P. Chang, our Vice Chairman and President.

Richard H.P. Chang has served as Vice Chairman of ASE Inc. since November 1999 after having served as President of ASE Inc. since its founding in March 1984, and served as Chief Executive Officer of ASE Inc. from July 2000 to April 2003. In February 2003, he was again appointed President of ASE Inc. upon the retirement of Mr. Leonard Y. Liu. Mr. Chang is also the Vice Chairman of ASE Test. He holds a degree in industrial engineering from Chung Yuan Christian University of Taiwan. He is the brother of Jason C.S. Chang, our Chairman and Chief Executive Officer.

Joseph Tung has served as a director of ASE Inc. since April 1997 and Chief Financial Officer since December 1994. He is also a director of ASE Test. Before joining ASE Inc., Mr. Tung was a Vice President at Citibank, N.A. He received a degree in economics from the National Chengchi University of Taiwan and a master's degree in business administration from the University of Southern California.

Chin Ko-Chien has served as a director of ASE Inc. since March 1984 and Executive Vice President and General Manager of our packaging facility in Kaohsiung, Taiwan since March 1990. Mr. Chin is also a director of ASE Test. Before joining ASE Inc., he held managerial positions at Fu Hua Construction Co. Ltd. and De Ji Trading Company. He holds a degree in bearings technology from Taiwan Ocean University.

Jeffrey Chen has served as a director of ASE Inc. since June 2003 and a director of ASE Test since 1998. He is also a Vice President of ASE Inc. and a Special Assistant to the Chairman of ASE Inc. He was the Chief Financial Officer of ASE Test from July 1998 to August 2002. Prior to joining the ASE group, he worked in the corporate banking department of Citibank, N.A. in Taipei and as the Vice President of corporate finance at Bankers Trust in Taipei. He holds a degree in finance and economics from Simon Fraser University in Canada and a master's degree in business administration from the University of British Columbia in Canada.

Tien Wu has served as a director of ASE Inc. since June 2003 and the Chief Executive Officer of ISE Labs since March 2003. He also serves as the Vice President of Worldwide Marketing and Strategy of the ASE group. Prior to joining ASE Inc. in March 2000, Mr. Wu held various managerial positions with IBM. He holds a B.S.C.E. degree from the National Taiwan University and a M.S. degree in mechanical engineering and a Ph.D. in applied mechanics from the University of Pennsylvania.

Feng Mei-Jean has served as a supervisor of ASE Inc. since March 1984. She holds a degree in economics from National Taiwan University. She is the wife of Richard H.P. Chang, our Vice Chairman and President.

Yen-Yi Tseng has served as a supervisor of ASE Inc. since July 2000 and Chairman of Hung Ching since July 2002. Mr. Tseng served as President of Ret-Ser Engineering Agency from 1991 to 1998. He holds a degree in civil engineering from National Taiwan University and a master's degree in system engineering from Asian Institute of Technology in Thailand. He was also a participant in the Program for Management Development at Harvard Business School.

John Ho has served as a supervisor of ASE Inc. since April 1998. He is also

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a director of Universal Scientific. He served as Chief Financial Officer of ASE Inc. from 1988 until 1995. He holds a degree in business administration from National Taiwan University and a master's degree in business administration from the University of Iowa.

Raymond Lo has served as a supervisor of ASE Inc. since July 2000 and President of ASE Test since April 2004, after serving as President of ASE Test Taiwan since 1999 and Vice President of Operations of ASE Inc. since July 1993. Before joining ASE Inc., Mr. Lo was the Director of Quality Assurance at Zeny Electronics Co. He holds a degree in electronic physics from the National Chiao Tung University of Taiwan.

Samuel Liu has served as a supervisor of ASE Inc. since May 2005. He is currently the Chief Technical Officer for testing operations. Prior to joining ASE Inc. in 2004, Mr. Liu worked at Intel and other chip companies in various technical and management positions for over 25 years. He holds a B.S.E.E. degree from National Taiwan University and a Ph.D. from Stanford University.

Fu-Sing Chang has served as President of ASE Test Malaysia since August 2004. Before joining ASE Test Malaysia, Mr. Chang was a special assistant to the General Manager of our packaging facility in Kaohsiung, Taiwan. He holds a degree in mechanical engineering from Chung Kung University in Taiwan.

Sang Jin Maeng has served as President of ASE Korea since January 2004, after serving as Senior Vice President of ASE Korea since July 1999. Mr. Maeng was Vice President of Motorola Korea, Limited before joining ASE Korea when we acquired Motorola Korea, Limited. He holds a degree in communication and electronic engineering from the Civil Aviation College of Korea.

The business address of our directors, supervisors and executive officers is our registered office.

COMPENSATION

In 2004, we paid to our directors, supervisors and executive officers approximately NT\$117.0 million (US\$3.7 million) in cash remuneration. In June 2004, we granted an aggregate of 11,150,000 options to our directors, supervisors and executive officers under our employee stock option plan at an initial exercise price of NT\$26.60 per share, which as of May 31, 2005 has been adjusted to an exercise price of NT\$25.10 per share due to subsequent stock dividends. In 2004, we did not set aside any pension, retirement and similar benefits for our executive officers pursuant to existing plans provided by or contributed to by our company or its subsidiaries. We did not pay any remuneration in kind to our directors, supervisors or executive officers in 2004. We have not provided any loans to or guarantees for the benefit of any of our directors, supervisors or executive officers. For information regarding our pension and other retirement plans and those of our subsidiaries, see "--Employees", "Item 5. Operating and Financial Review and Prospects--Operating Results and Trend Information--ROC Labor Pension Act" and note 17 to our consolidated financial statements.

ASE Inc. Employee Bonus and Stock Option Plans

We award bonuses to employees of ASE Inc. and its subsidiaries who are located in Taiwan based on overall income and individual performance targets. These employees are eligible to receive bonuses in the form of our common shares valued at par. Actual amounts of bonuses to individual employees are determined based upon the employee meeting specified individual performance objectives. We did not grant any stock bonuses to employees of ASE Inc. or its subsidiaries in 2002 or 2003. In 2004, we granted an aggregate of 15,427,203 common shares as stock bonuses with an aggregate value of NT\$154.3 million (US\$4.9 million). At our annual shareholders' meeting held on June 15, 2004, our shareholders, in

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addition to approving such stock bonus, also approved NT\$18.4 million (US\$0.6 million) as cash bonuses to employees. See "Item 5. Operating and Financial Review and Prospects--

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Operating Results and Trend Information--U.S. GAAP Reconciliation" for a discussion of how stock bonuses are calculated under ROC GAAP.

We currently maintain two option plans, adopted in 2002 and 2004. Pursuant to these plans, our full-time employees as well as the full-time employees of our domestic and foreign subsidiaries are eligible to receive stock option grants. Under the 2002 plan, for a period of one year from August 28, 2002, we could grant up to 160,000,000 options. Under the 2004 plan, for a period of one year from May 27, 2004, we can grant up to 140,000,000 options. Each option entitles the holder to purchase one ASE Inc. common share at a price equal to the closing market price on the date of the option issuance. Each option is exercisable upon vesting for five years. Typically, 40% of the options originally granted vest upon the second anniversary of the grant date, and an additional 10% of the options originally granted vest every six months thereafter. Each option expires at the end of the 10th year following its grant date. The options are generally not transferable. As of December 31, 2004, a total of 159,968,000 options had been granted under the 2002 plan, 145,989,000 of which had an initial exercise price of NT\$17.80 per share and 13,979,000 of which had an initial exercise price of NT\$23.20 per share. As of December 31, 2004, a total of 124,917,000 options with an initial exercise price of NT\$25.10 per share had been granted under the 2004 plan.

ASE Test Share Option Plans

As of December 31, 2004, ASE Test maintained six option plans, which included plans adopted in each year from 1996 to 2000, and a sixth option plan, which became effective on June 25, 2004. The option plans that ASE Test adopted in 1996, 1997 and 1998 expired on April 19, 2005. Under ASE Test's share option plans, ASE Test's directors, employees, advisors, consultants and affiliates, some of whom serve as our directors, supervisors and employees, may, at the discretion of a committee of its directors administering the plan, be granted options to purchase its shares at an exercise price of no less than their market value on the date of grant. The committee has complete discretion to determine which eligible individuals are to receive option grants, the number of shares subject to each grant, the vesting schedule for each option grant and the maximum term for which each granted option is to remain outstanding, up to a maximum term of ten years in the case of the 1999, 2000 and 2004 option plans. ASE Test's board of directors may amend or modify the plans at any time. As of December 31, 2004, an aggregate of 31,300,000 of ASE Test's shares had been reserved for issuance and 10,877,448 options to purchase its shares remained outstanding under its various option plans. An aggregate of 10,381,000 options (of which 5,175,000 was outstanding as of December 31, 2004) had been granted to the directors and executive officers of ASE Test. Options granted under the various plans are exercisable at exercise prices ranging from US\$5.50 to US\$25.00 per share.

EMPLOYEES

The following table sets forth, for the periods indicated, certain information concerning our employees for the dates indicated.

As of December 31,

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| | 2002 | 2003 | 2004 |
|--------------------------------------|--------|--------|--------|
| Total..... | 20,401 | 24,443 | 34,649 |
| Function | | | |
| Direct labor..... | 13,059 | 15,808 | 23,184 |
| Indirect labor (manufacturing)..... | 4,264 | 5,389 | 7,238 |
| Indirect labor (administration)..... | 1,517 | 1,704 | 2,017 |
| Research and development..... | 1,561 | 1,542 | 2,210 |
| Location | | | |
| Taiwan..... | 15,061 | 18,202 | 22,893 |
| Malaysia..... | 3,140 | 4,207 | 5,787 |
| PRC(1)..... | -- | -- | 2,561 |
| Korea..... | 1,305 | 1,617 | 1,912 |
| Japan(2)..... | -- | -- | 988 |
| Singapore..... | 65 | 116 | 304 |
| United States..... | 361 | 273 | 195 |

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| | As of December 31, | | |
|---------------------|--------------------|------|------|
| | 2002 | 2003 | 2004 |
| Philippines(3)..... | 461 | 20 | -- |
| Hong Kong(4)..... | 8 | 8 | 9 |

-
- (1) We commenced our operations in the PRC in June 2004. See "Item 4. Information on the Company--Organizational Structure--Our Consolidated Subsidiaries--ASE Shanghai".
 - (2) We commenced our operations in Japan in May 2004. See "Item 10. Additional Information--Material Contracts--Share Sale and Purchase Agreement dated as of February 3, 2004 among NEC Electronics Corporation, NEC Yamagata Ltd., J&R Holding Limited and ASE Inc."
 - (3) In October 2003, we closed our facilities and discontinued our operations in the Philippines.
 - (4) We are currently in the process of discontinuing our operations in Hong Kong.

Eligible employees may participate in our employee share bonus plan and stock option plans and the ASE Test's share option plans. See "--Compensation--ASE Inc. Employee Bonus and Stock Option Plans" and "--Compensation--ASE Test Share Option Plans". See also "Item 5. Operating and Financial Review and Prospects--Operating Results and Trend Information--ROC Labor Pension Act".

With the exception of ASE Korea's employees, our employees are not covered by any collective bargaining arrangements. We believe that our relationship with our employees is good.

SHARE OWNERSHIP

The following table sets forth certain information with respect to our common shares and options exercisable for our common shares held by our directors, supervisors and executive officers as of April 30, 2005.

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| Director, Supervisor or Executive Officer | Number of ASE Inc. Common Shares Held | Percentage of Total ASE Inc. Common Shares Issued and Outstanding | Number of Options Held | Exercise Price of Options (NT\$) |
|---|---------------------------------------|---|------------------------|----------------------------------|
| Jason C.S. Chang..... | 36,084,709 (1) | 0.88% | 9,800,000 (2) | 17.8-25.1 |
| Richard H.P. Chang... | 51,632,748 | 1.26% | 6,200,000 (2) | 17.8-25.1 |
| Joseph Tung..... | 1,259,635 | 0.03% | * | 17.8-25.1 |
| Chin Ko-Chien..... | 1,031,771 | 0.03% | * | 17.8-25.1 |
| Jeffrey Chen..... | 34,627 | + | * | 17.8-25.1 |
| Tien Wu..... | 203,907 | + | * | 17.8-25.1 |
| Feng Mei-Jean..... | 67,027,344 | 1.63% | -- | -- |
| Yen-Yi Tseng..... | 52,427 | + | * | 17.8-25.1 |
| John Ho..... | 893,864 | 0.02% | * | 17.8-25.1 |
| Raymond Lo..... | 746,882 | 0.02% | * | 17.8-25.1 |
| Samuel Liu..... | -- | -- | * | 25.1 |
| Fu-Sing Chang..... | 150,000 | + | * | 17.8-25.1 |
| Sang Jin Maeng..... | -- | -- | * | 17.8-25.1 |

(1) In addition to holding 0.88% of our common shares directly, Jason C.S. Chang is the sole shareholder and director of a company that holds all the outstanding shares of ASE Enterprises, which holds 17.77% of our common shares. See "Item 7. Major Shareholders and Related Party Transactions--Major Shareholders".

(2) Each option covers one of our common shares.

* The sum of the number of common shares held and the number of common shares issuable upon exercise of all options held is less than 1% of our total outstanding common shares.

+ Represents less than 0.01% of our total outstanding common shares.

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Item 7. Major Shareholders and Related Party Transactions

MAJOR SHAREHOLDERS

The following table sets forth information known to us with respect to the beneficial ownership of our common shares, as of April 30, 2005, by each shareholder known by us to beneficially own more than 5% of our outstanding common shares and all directors, supervisors and executive officers as a group.

| Name of Shareholder or Group | Common Shares Beneficially | |
|---|----------------------------|------------|
| | Number | Percentage |
| ASE Enterprises(1)..... | 730,912,329 | 17. |
| Capital Group International, Inc.(2)..... | 251,874,420 | 6. |
| Capital International, Inc.(2)..... | 243,206,070 | 5. |

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Directors, supervisors and executive officers as a group(3)..... 889,049,325

21.

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- (1) ASE Enterprises is a company organized under the laws of Hong Kong. All of the outstanding shares of ASE Enterprises are held by a company organized under the laws of the British Virgin Islands in trust for the benefit of the family of our Chairman and Chief Executive Officer, Jason C.S. Chang, who is the sole shareholder and director of that company.
 - (2) Beneficial ownership information as of December 31, 2004 as reported by Capital Group International, Inc.'s and Capital International, Inc.'s Schedule 13G filed jointly with the SEC on February 11, 2005. Capital Group International, Inc. and Capital International, Inc. are companies organized under the laws of the state of California. Capital Group International, Inc. is the parent holding company of investment management companies, including Capital International, Inc., an investment advisor providing investment advisory and management services to its clients. We do not have any information with respect to the ownership of our common shares by Capital Group International, Inc. or Capital International, Inc. other than what is disclosed in their Schedule 13G filed on February 11, 2005.
 - (3) Includes shareholding of ASE Enterprises.

The following table sets forth information relating to our common shares held by our consolidated subsidiaries and unconsolidated affiliates as of April 30, 2005.

| Name of Shareholder | Common Shares Beneficially Owned | |
|-----------------------------|----------------------------------|------------|
| | Number | Percentage |
| ASE Test Taiwan(1)..... | 759,196 | 0.02% |
| Hung Ching(2)..... | 44,576,204 | 1.08% |
| J&R Holding Limited(3)..... | 84,501,301 | 2.05% |

-
- (1) ASE Test Taiwan is a 99.99%-owned subsidiary of ASE Test, our 51%-owned subsidiary.
 - (2) As of April 30, 2005, we held 26.4% of the outstanding shares of Hung Ching. Chang Yao Hung-ying, who was our director from 1984 to June 2003, our Chairman and Chief Executive Officer, Jason C.S. Chang, our Vice Chairman and President, Richard H.P. Chang, and other members of the Chang family are controlling shareholders of Hung Ching. See "Item 4. Information on the Company--Organizational Structure--Our Unconsolidated Affiliates".
 - (3) J&R Holding Limited is our wholly-owned subsidiary. J&R Holding Limited's ownership of our common shares is the result of the merger of ASE Chung Li with and into us and subsequent dividends upon shares received in connection with such merger. See "--Related Party Transactions".

In connection with the merger of ASE Chung Li with and into ASE Inc., we and ASE Test have established a trust to hold and dispose of 149,175,000 and 5,000,000 of our common shares that were issued to ASE Test and ASE Test Taiwan, respectively, upon completion of the merger. As a result, the trustee appointed under the trust agreement has become one of our shareholders until such common shares are sold as permitted under the rules and regulations of the Taiwan Stock Exchange and the terms and conditions of the trust agreement. As of May 31, 2005, as a result of stock dividends, the total amount of our common shares held by the trust was 163,024,645. See "Item 7. Major Shareholders and Related Party Transactions--Related Party Transactions".

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In June 2003, we completed an offering of ADSs in which our wholly-owned subsidiaries ASE Investment Inc. and ASE Capital Inc. together sold 163,788,000 of our common shares. ASE Investment Inc. and ASE Capital Inc. also sold an additional 1,144 of our common shares on the Taiwan Stock Exchange following the ADS offering.

None of our major shareholders has voting rights different from those of our other shareholders. Other than:

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- o Capital Group International, Inc. and Capital International, Inc. becoming the beneficial owners of more than 5% of our outstanding common shares in 2003 and 2004, respectively;
- o the sale of our common shares in June 2003 by ASE Investment Inc. and ASE Capital Inc. as described above; and
- o the receipt by J&R Holding Limited, our wholly-owned subsidiary, of 79,914,225 of our outstanding shares in connection with the merger of ASE Chung Li with and into ASE Inc. See "--Related Party Transactions";

there were no changes in our major shareholders or significant changes in the percentage ownership of any of our major shareholders in 2004, 2003 or 2002.

As of April 30, 2005, a total of 4,113,744,200 common shares were outstanding. With certain limited exceptions, holders of common shares that are not ROC persons are required to hold their common shares through a brokerage account in the ROC. As of April 30, 2005, 138,135,270 common shares were registered in the name of a nominee of Citibank, N.A., the depository under our ADS deposit agreement. Citibank, N.A., has advised us that, as of April 30, 2005, 27,625,611 ADSs, representing 138,128,055 common shares, were held of record by Cede & Co., and 1,443 ADSs, representing 7,215 common shares, were held by 7 other U.S. persons. We have no further information as to common shares held, or beneficially owned, by U.S. persons.

RELATED PARTY TRANSACTIONS

In recent years, we have awarded our common shares to the employees of our subsidiaries as part of their compensation, based in part on our consolidated net income and the subsidiaries' contribution to the consolidated income. At our annual shareholders' meeting held on June 15, 2004, our shareholders approved the grant of 15,427,203 common shares as stock bonuses to employees. We expect this practice to continue in the future.

Prior to its merger into us, ASE Material sold interconnect materials in the aggregate amount of NT\$3,766.2 million (US\$118.7 million), NT\$4,116.3 million and NT\$2,885.6 million to us in 2004, 2003 and 2002, respectively. In 2004, ASE Group purchased approximately 51% of its substrate requirements by value for its packaging facilities from ASE Material (including the amount provided by the former operations of ASE Material after ASE Material's merger into us). Before the completion of our merger with ASE Material on August 1, 2004, we purchased materials from ASE Material at prevailing market prices.

On August 1, 2004, ASE Chung Li and ASE Material merged with and into us pursuant to a merger agreement dated October 28, 2003. We are the surviving corporation. The merger was consummated by means of a share exchange pursuant to

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which the respective shareholders (other than ourselves) of ASE Chung Li and ASE Material received our common shares in exchange for the common shares of each of ASE Chung Li and ASE Material. We issued 282,315,437 common shares, or approximately 7.9% of our outstanding shares as of October 28, 2003, in connection with the merger. In connection with our merger with ASE Chung Li, we issued 149,175,000 of our common shares to ASE Test, our consolidated subsidiary, 79,914,225 of our common shares to J&R Holding Limited, our wholly-owned subsidiary, and four common shares to certain individuals who were the original shareholders of ASE Chung Li. The merger with ASE Chung Li had a transaction value of approximately NT\$7,101.8 million, based on NT\$31.00 per ASE Inc. common share, which was the average of the closing prices of our common shares on the Taiwan Stock Exchange for two days prior to and following October 28, 2003. In connection with our merger with ASE Material, we issued 5,000,000 of our common shares to ASE Test Taiwan, a consolidated subsidiary of ASE Test, 1,086,800 of our common shares to Hung Ching, our affiliate, and 47,139,409 of our common shares to employees and other shareholders (other than ourselves) of ASE Material and a strategic investor. The merger with ASE Material had a transaction value of approximately NT\$1,650.0 million (US\$52.0 million), based on NT\$31.00 per ASE Inc. common share, which was the average of the closing prices of our common shares on the Taiwan Stock Exchange for two days prior to and following October 28, 2003. In connection with our merger with ASE Material, Richard H.P. Chang, our Vice Chairman and President, in his individual capacity as a shareholder and director of ASE Material, also received our common shares in exchange for common shares of ASE Material held by him.

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All of the assets and liabilities of ASE Chung Li and ASE Material are owned and have been assumed by ourselves and the operations of ASE Chung Li and ASE Material have been integrated with our operations. The merger agreement was approved by our board of directors and shareholders as well as the board of directors and shareholders of each of ASE Chung Li and ASE Material.

In order to comply with Singapore law, trusts organized under ROC law have been established to hold and dispose of our 149,175,000 common shares issued to ASE Test and our 5,000,000 common shares issued to ASE Test Taiwan in connection with the merger. Under Section 76(1)(b)(ii) of the Companies Act, Chapter 50, of Singapore, ASE Test, a Singapore company, may not purport to acquire, directly or indirectly, shares or units of shares in our company, ASE Test's parent company. Pursuant to the applicable trust agreements, the trustee under each trust is (1) the registered owner of the common shares, (2) able to exercise all of the rights as a shareholder of the common shares, (3) able to sell the common shares pursuant to the terms and conditions of the trust agreement and (4) able to transfer and deliver to ASE Test or ASE Test Taiwan the proceeds from the sale of our common shares and any cash dividends distributed, as the case may be. Neither ASE Test nor ASE Test Taiwan have any rights with respect to the common shares held in trust pursuant to the applicable trust agreements other than the right to receive the proceeds from the sale of such common shares and cash dividends.

We have historically guaranteed the promissory notes of many of our subsidiaries and affiliates. As of December 31, 2004, we had endorsed and guaranteed an aggregate amount of NT\$11,382.7 million (US\$358.6 million) of the outstanding promissory notes of our subsidiaries.

We have constructed a new building in Kaohsiung, Taiwan with Hung Ching, our affiliate engaged in the development and management of commercial, residential and industrial real estate in Taiwan. The new building was completed in July 2004 and has approximately 1,172,000 square feet of floor space. We and

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ASE Test Taiwan purchased Hung Ching's interest in the development in January 2005. We own the first eight floors of the building with floor space of approximately 940,000 square feet and ASE Test Taiwan owns the remaining two floors with floor space of approximately 232,000 square feet. We use our floor space to house part of our operations in Kaohsiung. The total cost to us of the construction project was approximately NT\$1,329.2 million (US\$41.9 million).

We are currently in discussions with Hung Ching to finalize the purchase price of the two new buildings in Chung Li, Taiwan that we have built with Hung Ching. See "Item 4. Information on the Company--Property, Plants and Equipment--Expansion".

Item 8. Financial Information

CONSOLIDATED STATEMENTS AND OTHER FINANCIAL INFORMATION

Consolidated financial statements are set forth under "Item 18. Financial Statements".

LEGAL PROCEEDINGS

We are not involved in material legal proceedings the outcome of which we believe would have a material adverse effect on us.

DIVIDENDS AND DIVIDEND POLICY

To date, we have not paid cash dividends on our common shares, and, while we anticipate paying a percentage of our dividends in cash in the near future, we expect that we will continue to pay a substantial portion of our dividends in the form of stock. We have paid annual stock dividends on our common shares since 1989, except in 2002 when we did not pay any dividend due to the losses we incurred in the 2001 fiscal year.

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The following table sets forth the stock dividends paid during each of the years indicated and related information.

| | Stock Dividends Per Common Shares(1) | Total Common Shares Issued as Stock Dividends | Outstanding Common Shares on Record Date(2) |
|-----------|---|---|---|
| | ----- | | |
| | NT\$ | | |
| 1995..... | 3.60 | 93,600,000 | 260,000,000 |
| 1996..... | 8.00 | 319,840,000 | 399,800,000 (3) |
| 1997..... | 3.80 | 277,020,000 | 729,000,000 |
| 1998..... | 7.20 | 732,240,000 | 1,017,000,000 |
| 1999..... | 1.07 | 190,460,000 | 1,780,000,000 |
| 2000..... | 3.15 | 623,811,852 | 1,980,355,086 |
| 2001..... | 1.70 | 467,840,000 | 2,752,000,000 |
| 2002..... | -- | -- | 3,254,800,000 |
| 2003..... | 1.00 | 325,480,000 | 3,254,800,000 |
| 2004..... | 0.57 | 221,977,360 | 3,862,595,437 |

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- (1) Holders of common shares receive as a stock dividend the number of common shares equal to the NT dollar value per common share of the dividend declared multiplied by the number of common shares owned and divided by the par value of NT\$10 per share. Fractional shares are not issued but are paid in cash.
- (2) Aggregate number of common shares outstanding on the record date applicable to the dividend payment. Includes common shares issued in the previous year under our employee bonus plan.
- (3) Includes 43,000,000 common shares issued in connection with an offering of global depositary shares in July 1995.

We have historically paid stock dividends on our common shares with respect to the results of the preceding year following approval by our shareholders at the annual general meeting of shareholders. At our annual shareholders' meeting held on June 15, 2004, our shareholders approved a stock dividend of 221,977,360 common shares, or NT\$0.57 (US\$0.02) per common share. The form, frequency and amount of future cash or stock dividends on our common shares will depend upon our net income, cash flow, financial condition and other factors. See "Item 10. Additional information--Articles of Incorporation--Dividends and Distributions".

In general, we are not permitted to distribute dividends or make other distributions to shareholders for any year where we did not record net income or retained earnings (excluding reserves). The ROC Company Law also requires that 10% of annual net income (less prior years' losses, if any) be set aside as a legal reserve until the accumulated legal reserve equals our paid-in capital. In addition, our Articles of Incorporation require that before a dividend is paid out of our annual net income:

- o up to 2% of our annual net income (less prior years' losses and legal and special reserves, if any) should be paid to our directors and supervisors as compensation; and
- o between 5% and 7% of the annual net income (less prior years' losses and legal and special reserves, if any) should be paid to our employees as bonuses; the 5% portion is to be distributed to all employees in accordance with our employee bonus distribution rules, while any portion exceeding 5% is to be distributed in accordance with rules established by our board of directors to individual employees who have been recognized as having made special contributions to our company.

In order to meet the needs of our present and future capital expenditures, our dividend distribution will be primarily in the form of common shares. Cash dividends may also be distributed in certain circumstances. However, in accordance with our Articles of Incorporation, the percentage of cash dividends shall not exceed 20% in any dividend distribution.

Holders of ADSs will be entitled to receive dividends, subject to the terms of the deposit agreement, to the same extent as the holders of the common shares. Cash dividends will be paid to the depositary in NT dollars and, except as otherwise provided in the deposit agreement, will be converted by the depositary into U.S. dollars and paid to holders of ADSs according to the terms of the deposit agreement. Stock dividends will be distributed to the

depositary and, except as otherwise provided in the deposit agreement, will be distributed by the depositary, in the form of additional ADSs, to holders of

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ADSS according to the terms of the deposit agreement.

Holders of outstanding common shares on a dividend record date will be entitled to the full dividend declared without regard to any prior or subsequent transfer of common shares. Accordingly, holders of outstanding ADSS on the relevant dividend record date will, subject to the terms of the deposit agreement, be similarly entitled to the full amount of any dividend declared.

For information relating to ROC withholding taxes payable on dividends, see "Item 10. Additional Information--Taxation--ROC Taxation--Dividends".

SIGNIFICANT CHANGES

On May 1, 2005, a fire broke out at the principal building of our facilities in Chung Li, Taiwan. Before the fire, the building housed our operations for the production of interconnect materials, as well as the substantial majority of our packaging and testing operations, at Chung Li. Based upon our initial assessment, the estimated net book value as of March 31, 2005 of our fixed assets, including the building, machinery and equipment, and the estimated value of our inventory damaged by the fire totaled approximately NT\$12.2 billion (US\$0.4 billion).

While we currently plan to return to pre-accident output levels in the foreseeable future, we cannot guarantee that we will be able to do so. Our failure to do so, as well as any inability to collect on insurance, prevent our customers from switching to our competitors, or otherwise proceed with our plans to restore our operations may have a material adverse effect on our financial condition and results of operations.

Item 9. The Offer and Listing

OFFER AND LISTING DETAILS

Our common shares were first issued in March 1984 and have been listed on the Taiwan Stock Exchange since July 1989. The Taiwan Stock Exchange is an auction market where the securities traded are priced according to supply and demand through announced bid and ask prices. As of April 30, 2005, there were an aggregate of 4,113,744,200 of our common shares outstanding. The following table sets forth, for the periods indicated, the high and low closing prices and the average daily volume of trading activity on the Taiwan Stock Exchange for the common shares and the high and low of the daily closing values of the Taiwan Stock Exchange Index. The closing price for our common shares on the Taiwan Stock Exchange on May 31, 2005 was NT\$22.85 per share.

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| | Closing Price per Share | | Adjusted Closing Price per Share(1) | | Average Daily Trading Volume |
|-----------|-------------------------|-------|-------------------------------------|-------|------------------------------|
| | High | Low | High | Low | (in thousands of shares) |
| 1999..... | 117.00 | 51.00 | 66.18 | 27.22 | 47,782 |

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| | | | | | |
|---------------------------------|--------|-------|-------|-------|--------|
| 2000..... | 123.00 | 22.60 | 72.68 | 17.56 | 24,507 |
| 2001..... | 38.80 | 14.00 | 31.09 | 12.73 | 25,079 |
| 2002..... | 38.50 | 15.90 | 35.00 | 14.45 | 24,798 |
| First Quarter..... | 35.80 | 26.00 | 32.55 | 23.64 | 35,735 |
| Second Quarter..... | 38.50 | 20.80 | 35.00 | 18.91 | 19,479 |
| Third Quarter..... | 24.50 | 17.10 | 22.27 | 15.55 | 17,232 |
| Fourth Quarter..... | 24.30 | 15.90 | 22.09 | 14.45 | 28,264 |
| 2003..... | 35.50 | 16.90 | 35.50 | 15.36 | 24,852 |
| First Quarter..... | 22.50 | 16.90 | 20.45 | 15.36 | 16,422 |
| Second Quarter..... | 22.50 | 17.80 | 20.45 | 16.18 | 27,240 |
| Third Quarter..... | 27.80 | 21.50 | 27.80 | 19.55 | 33,764 |
| Fourth Quarter..... | 35.50 | 26.30 | 35.50 | 26.30 | 20,889 |
| 2004..... | 36.20 | 21.10 | 36.20 | 21.10 | 24,113 |
| First Quarter..... | 39.30 | 33.20 | 39.30 | 33.20 | 26,838 |
| Second Quarter..... | 36.20 | 21.10 | 36.20 | 21.10 | 26,281 |
| Third Quarter..... | 28.20 | 21.90 | 28.20 | 21.90 | 20,745 |
| Fourth Quarter..... | 26.00 | 22.20 | 26.00 | 22.20 | 27,733 |
| November..... | 26.00 | 22.50 | 26.00 | 22.50 | 18,612 |
| December..... | 24.50 | 22.90 | 24.50 | 22.70 | 21,410 |
| 2005 | | | | | |
| First Quarter..... | 24.85 | 20.00 | 24.85 | 20.00 | 27,239 |
| January..... | 23.80 | 20.00 | 23.80 | 20.00 | 27,360 |
| February..... | 24.80 | 21.40 | 24.80 | 21.40 | 47,029 |
| March..... | 24.85 | 22.00 | 24.85 | 22.00 | 15,942 |
| Second Quarter (through May 31) | 23.65 | 19.35 | 23.55 | 19.35 | 20,560 |
| April..... | 23.55 | 20.55 | 23.55 | 20.55 | 16,655 |
| May..... | 22.85 | 19.35 | 22.85 | 19.35 | 24,279 |

 (1) As adjusted retroactively by the Taiwan Stock Exchange to give effect to stock dividends paid in the periods indicated. See "Item 8. Financial Information--Dividends and Dividend Policy".

The performance of the Taiwan Stock Exchange has in recent years been characterized by extreme price volatility. There are currently limits on the range of daily price movements on the Taiwan Stock Exchange. In the case of equity securities traded on the Taiwan Stock Exchange, such as our common shares, fluctuations in the price of a particular security may not exceed a 7% change either above or below the previous day's closing price of such security.

Our ADSs have been listed on the New York Stock Exchange under the symbol "ASX" since September 26, 2000. The outstanding ADSs are identified by the CUSIP number 00756M404. As of April 30, 2005, a total of 27,627,054 ADSs were outstanding. The following table sets forth, for the periods indicated, the high and low closing prices and the average daily volume of trading activity on the New York Stock Exchange for our ADSs and the highest and lowest of the daily closing values of the New York Stock Exchange Index. The closing price for our ADSs on the New York Stock Exchange on May 31, 2005 was US\$3.54 per ADS.

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| Closing Price per ADS | Adjusted Closing Price per ADS(1) | Average Daily Trading Volume |
|-----------------------|-----------------------------------|------------------------------|
| ----- | ----- | ----- |

(In thousands)

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| | High | Low | High | Low | of ADSs) |
|-----------------------------|------|------|------|------|----------|
| | US\$ | US\$ | US\$ | US\$ | |
| 2000..... | 6.75 | 3.06 | 5.24 | 2.38 | 31 |
| 2001..... | 6.05 | 1.75 | 4.70 | 1.59 | 106 |
| 2002..... | 5.54 | 2.21 | 5.04 | 2.01 | 111 |
| First Quarter..... | 5.35 | 3.75 | 4.86 | 3.41 | 135 |
| Second Quarter..... | 5.54 | 3.05 | 5.04 | 2.77 | 130 |
| Third Quarter..... | 3.70 | 2.39 | 3.36 | 2.17 | 110 |
| Fourth Quarter..... | 3.50 | 2.21 | 3.18 | 2.01 | 72 |
| 2003..... | 5.27 | 2.45 | 5.27 | 2.23 | 195 |
| First Quarter..... | 3.23 | 2.45 | 2.94 | 2.23 | 41 |
| Second Quarter..... | 3.22 | 2.50 | 2.93 | 2.27 | 229 |
| Third Quarter..... | 4.11 | 3.17 | 4.11 | 2.88 | 257 |
| Fourth Quarter..... | 5.27 | 3.88 | 5.27 | 3.88 | 244 |
| 2004..... | 5.95 | 3.18 | 5.16 | 3.03 | 219 |
| First Quarter..... | 5.95 | 5.12 | 5.62 | 4.34 | 328 |
| Second Quarter..... | 5.46 | 3.22 | 5.16 | 3.04 | 269 |
| Third Quarter..... | 3.87 | 3.18 | 3.75 | 3.03 | 202 |
| Fourth Quarter..... | 3.97 | 3.28 | 3.97 | 3.28 | 89 |
| November..... | 3.97 | 3.36 | 3.97 | 3.36 | 94 |
| December..... | 3.76 | 3.51 | 3.76 | 3.51 | 108 |
| 2005 | | | | | |
| First Quarter..... | 4.07 | 3.20 | 4.07 | 3.20 | 165 |
| January..... | 3.74 | 3.20 | 3.74 | 3.20 | 134 |
| February..... | 4.03 | 3.40 | 4.03 | 3.40 | 177 |
| March..... | 4.07 | 3.54 | 4.07 | 3.54 | 184 |
| Second Quarter (through May | | | | | |
| 31)..... | 3.80 | 3.09 | 3.80 | 3.09 | 398 |
| April..... | 3.80 | 3.29 | 3.80 | 3.29 | 508 |
| May..... | 3.62 | 3.09 | 3.62 | 3.09 | 287 |

(1) As adjusted retroactively to give effect to stock dividends paid in the periods indicated.

PLAN OF DISTRIBUTION

Not applicable.

MARKETS

The principal trading market for our common shares is the Taiwan Stock Exchange and the principal trading market for ADSs representing our common shares is the New York Stock Exchange.

SELLING SHAREHOLDERS

Not applicable.

DILUTION

Not applicable.

EXPENSES OF THE ISSUE

Not applicable.

Item 10. Additional Information

SHARE CAPITAL

Not applicable.

ARTICLES OF INCORPORATION

General

We are a company limited by shares organized under the laws of the ROC. Our organizational document is our Articles of Incorporation. We have no by-laws.

Our Articles of Incorporation provide, in Article 2, that we are to engage in the following types of business:

- o the manufacture, assembly, processing, testing and export of various types of integrated circuitry;
- o the research, development, design and manufacture, assembly, processing, testing and export of various computers, electronics, communications, information products and their peripheral products;
- o general import and export trading (excluding businesses that require trading permits);
- o the manufacture of electronic parts and components;
- o the manufacture of mechanical and electronic devices and materials (including integrated circuit leadframes, BGA substrates and flip-chip substrates);
- o wholesale and retail sales of electronic materials;
- o technical support and consulting service for integrated circuit leadframes, BGA substrates and flip-chip substrates;
- o leasing; and
- o except any business requiring a special permit, any business not prohibited or restricted by law or regulation.

We were incorporated on March 23, 1984 as a company limited by shares under the ROC Company Law. Our authorized capital was NT\$51,500,000,000, divided into 5,150,000,000 common shares, 4,113,744,200 of which were issued in registered form and outstanding as of April 30, 2005. We do not have any equity in the form of preference shares or otherwise outstanding as of the date of this annual report.

With the approval of our board of directors and the ROC Securities and Futures Bureau, we may grant stock options to our employees, provided that the shares to be issued under any option plan shall not exceed 10% of our outstanding common shares and the total number of shares to be issued under all option plans shall not exceed 15% of our outstanding common shares. The exercise price of an option shall not be less than the closing price of our common shares on the Taiwan Stock Exchange on the grant date of the option. As of December 31, 2004, we had granted 284,885,000 options pursuant to employee stock option plans established on August 28, 2002 and May 27, 2004, to our full-time employees as well as to full-time employees of our domestic and foreign subsidiaries. See

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"Item 6. Directors, Senior Management and Employees--Compensation--ASE Inc. Employee Bonus Plan and Stock Option Plans". We have 300,000,000 common shares reserved for issuance under our employee stock option plans.

Directors

Our Articles of Incorporation provide that we are to have from five to seven directors with tenures of three years who are elected at a shareholders' meeting. There is no minimum amount of shares necessary to stand for election to a directorship. Many of our directors are representatives appointed by corporate shareholders which

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appoint individual representatives. Re-elections are allowed. The directors have certain powers and duties, including devising operations strategy, proposing to distribute dividends or make up losses, proposing to increase or decrease capital, reviewing material internal rules and contracts, hiring and discharging the general manager, establishing and dissolving branch offices, reviewing budgets and audited financial statements and other duties and powers granted by or in accordance with the ROC Company Law, our Articles of Incorporation or shareholders resolutions.

The board of directors is constituted by the directors, who elect a chairman and a vice-chairman from among the directors to preside over the meeting of the board. Meetings of the board may be held in the ROC or any place abroad. A director may appoint another director to attend a meeting and vote by proxy, but a director may accept only one proxy.

Our Articles of Incorporation contain no provisions relating to a director's power to vote on a proposal in which that director is interested, the directors' power to vote compensation to themselves, borrowing powers, retirement or age-limit requirements.

Dividends and Distributions

In general, we are not permitted to distribute dividends or make other distributions to shareholders in any year in which we did not record net income or retained earnings (excluding reserves). The ROC Company Law also requires that 10% of annual net income (less prior years' losses, if any) be set aside as a legal reserve until the accumulated legal reserve equals our paid-in capital. In addition, our Articles of Incorporation require that before a dividend is paid out of our annual net income:

- o up to 2% of our annual net income (less prior years' losses and legal and special reserves, if any) should be paid to our directors and supervisors as compensation; and
- o between 5% and 7% of the annual net income (less prior years' losses and legal and special reserves, if any) should be paid to our employees as bonuses. The 5% portion is to be distributed to all employees in accordance with our employee bonus distribution rules, while any portion exceeding 5% is to be distributed in accordance with rules established by our board of directors to individual employees who have been recognized as having made special contributions to our company. Such employees include those of our affiliated companies who meet the criteria set by our board of directors.

At the annual general shareholders' meeting, our board of directors submits

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to the shareholders for their approval any proposal for the distribution of dividends or the making of any other distribution to shareholders from our net income for the preceding fiscal year. All common shares outstanding and fully paid as of the relevant record date are entitled to share equally in any dividend or other distribution so approved. Dividends may be distributed in cash, in the form of common shares or a combination of the two, as determined by the shareholders at the meeting. Cash dividends should not exceed 20% of the distribution for any given year.

We are also permitted to make distributions to our shareholders of additional common shares by capitalizing reserves. However, the capitalized portion payable out of our legal reserve is limited to 50% of the total accumulated legal reserve and the capitalization can only be effected when the accumulated legal reserve exceeds 50% of our paid-in capital.

For information on the dividends we paid in recent years, see "Item 8. Financial Information--Dividends and Dividend Policy". For information as to ROC taxes on dividends and distributions, see "--Taxation--ROC Taxation--Dividends".

Changes in Share Capital

Under ROC Company Law, any change in the authorized share capital of a company limited by shares requires an amendment to its Articles of Incorporation. In the case of a public company such as ourselves, the approval of the ROC Securities and Futures Bureau and the ROC Ministry of Economic Affairs is also required. Authorized but unissued common shares may be issued, subject to applicable ROC law, upon terms as our board of directors may determine.

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Preemptive Rights

Under the ROC Company Law, when an ROC company issues new shares for cash, existing shareholders who are listed on the shareholders' register as of the record date have preemptive rights to subscribe for the new issue in proportion to their existing shareholdings, while a company's employees, whether or not they are shareholders of the company, have rights to subscribe for 10% to 15% of the new issue. Any new shares that remain unsubscribed at the expiration of the subscription period may be offered by us to the public or privately placed.

In addition, in accordance with the ROC Securities and Exchange Law, a public company that intends to offer new shares for cash must offer to the public at least 10% of the shares to be sold. This percentage can be increased by a resolution passed at a shareholders' meeting, which would diminish the number of new shares subject to the preemptive rights of existing shareholders.

These preemptive rights provisions do not apply to offerings of new shares through a private placement approved at a shareholders' meeting.

Meetings of Shareholders

We are required to hold an ordinary meeting of our shareholders within six months following the end of each fiscal year. These meetings are generally held in Kaohsiung, Taiwan. Extraordinary shareholders' meetings may be convened by resolution of the board of directors or by the board of directors upon the written request of any shareholder or shareholders who have held 3% or more of the outstanding common shares for more than one year. Shareholders' meetings may also be convened by a supervisor. Notice in writing of general meetings of

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shareholders, stating the place, time and purpose, must be dispatched to each shareholder at least 30 days, in the case of ordinary meetings, and 15 days, in the case of extraordinary meetings, before the date set for each meeting. A majority of the holders of all issued and outstanding common shares present at a shareholders' meeting constitutes a quorum for meetings of shareholders.

Voting Rights

Under the ROC Company Law, shareholders have one vote for each common share held. Under the ROC Company Law, our directors and supervisors are elected at a shareholders' meeting through cumulative voting, unless the articles of incorporation of a company provide otherwise.

In general, a resolution can be adopted by the holders of at least a majority of the common shares represented at a shareholders' meeting at which the holders of a majority of all issued and outstanding common shares are present. Under ROC Company Law, the approval by at least a majority of the common shares represented at a shareholders' meeting in which a quorum of at least two-thirds of all issued and outstanding common shares are represented is required for major corporate actions, including:

- o amendment to the Articles of Incorporation, including increase of authorized share capital and any changes of the rights of different classes of shares;
- o transfer of the company's entire business or assets or substantial part of its business or assets;
- o execution, amendment or termination of any contract through which the company leases its entire business to others, or the company appoints others to operate its business or the company operates its business with others on a continuous basis;
- o acquisition of the entire business or assets of any other company, which would have a significant impact on the company's operations;
- o distribution of any stock dividend;
- o dissolution, merger or spin-off of the company; and
- o removal of the directors or supervisors.

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A shareholder may be represented at an ordinary or extraordinary meeting by proxy if a valid proxy form is delivered to us five days before the commencement of the ordinary or extraordinary shareholders' meeting.

Holders of ADSs do not have the right to exercise voting rights with respect to the underlying common shares, except as described in the deposit agreement.

Voting of Deposited Securities

Except as described below, holders of ADSs generally have no right under the deposit agreement to instruct the depository to exercise the voting rights for the common shares represented by the ADSs. Instead, by accepting ADSs or any beneficial interest in ADSs, holders of ADSs are deemed to have authorized and directed the depository to appoint our chairman or his designee to represent

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them at our shareholders' meetings and to vote the common shares deposited with the custodian according to the terms of the deposit agreement.

The depositary will mail to holders of ADSs any notice of shareholders' meeting received from us together with information explaining how to instruct the depositary to exercise the voting rights of the securities represented by ADSs.

If we fail to timely provide the depositary with an English language translation of our notice of meeting or other materials related to any meeting of owners of common shares, the depositary will endeavor to cause all the deposited securities represented by ADSs to be present at the applicable meeting, insofar as practicable and permitted under applicable law, but will not cause those securities to be voted.

If the depositary timely receives voting instructions from owners of at least 51.0% of the outstanding ADSs to vote in the same direction regarding one or more resolutions to be proposed at the meeting, including election of directors and supervisors, the depositary will notify our chairman or his designee to attend the meeting and vote all the securities represented by the holders' ADSs in accordance with the direction received from owners of at least 51.0% of the outstanding ADSs.

If we have timely provided the depositary with the materials described in the deposit agreement and the depositary has not timely received instructions from holders of at least 51.0% of the outstanding ADSs to vote in the same direction regarding any resolution to be considered at the meeting, then, holders of ADSs will be deemed to have authorized and directed the depositary bank to give a discretionary proxy to our chairman or his designee to attend and vote at the meeting the common shares represented by the ADSs in any manner, our chairman or his designee may wish, which may not be in the interests of holders.

The ability of the depositary to carry out voting instructions may be limited by practical and legal limitations and the terms of the securities on deposit. We cannot assure ADS holders that they will receive voting materials in time to enable them to return voting instructions to the depositary in a timely manner.

Register of Shareholders and Record Dates

Our share registrar, President Securities Corp., maintains our register of shareholders at its offices in Taipei, Taiwan, enters transfers of common shares in our register upon presentation of, among other documents, certificates representing the common shares transferred and acts as paying agent for any dividends or distributions with respect to our common shares. Under the ROC Company Law and our Articles of Incorporation, we may, by giving advance public notice, set a record date and close the register of shareholders for a specified period in order for us to determine the shareholders or pledgees that are entitled to rights pertaining to the common shares. The specified period required is as follows:

- o ordinary shareholders' meeting--60 days;
- o extraordinary shareholders' meeting--30 days; and
- o relevant record date--five days.

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Annual Financial Statements

At least ten days before the annual ordinary shareholders' meeting, our annual financial statements must be available at our principal executive office in Kaohsiung, Taiwan for inspection by the shareholders.

Transfer of Common Shares

The transfer of common shares in registered form is effected by endorsement and delivery of the related share certificates but, in order to assert shareholders' rights against us, the transferee must have his name and address registered on our register of shareholders. Shareholders are required to file their respective specimen seals, also known as chops, with us. Chops are official stamps widely used in Taiwan by individuals and other entities to authenticate the execution of official and commercial documents.

Acquisition of Common Shares by ASE Inc.

Under the ROC Securities and Exchange Law, we may purchase our own common shares for treasury stock in limited circumstances, including:

- o to transfer shares to our employees;
- o to deliver shares upon the conversion or exercise of bonds with warrants, preferred shares with warrants, convertible notes, convertible preferred shares or warrants issued by us; and
- o to maintain our credit and our shareholders' equity, provided that the shares so purchased shall be canceled.

We may purchase our common shares on the Taiwan Stock Exchange or by means of a public tender offer. These transactions require the approval of a majority of our board of directors at a meeting in which at least two-thirds of the directors are in attendance. The total amount of common shares purchased for treasury stock may not exceed 10% of the total outstanding shares. In addition, the total cost of the purchased shares shall not exceed the aggregate amount of our retained earnings, any premium from share issuances and the realized portion of our capital reserve.

Pursuant to the amended ROC Company Law, effective from November 14, 2001, our subsidiaries are not permitted to acquire our common shares. This restriction does not affect any acquisition of our common shares made by our subsidiaries prior to November 14, 2001.

Liquidation Rights

In the event of our liquidation, the assets remaining after payment of all debts, liquidation expenses and taxes will be distributed pro rata to the shareholders in accordance with the relevant provisions of the ROC Company Law and our Articles of Incorporation.

Transfer Restrictions

Substantial Shareholders

The ROC Securities and Exchange Law currently requires:

- o each director, supervisor, executive officer or substantial shareholder (that is, a shareholder who, together with his or her spouse, minor children or nominees, holds more than 10% of the shares of a public company) to report any change in that person's shareholding to the issuer of the shares and the ROC Securities and

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Futures Bureau; and

- o each director, supervisor, executive officer or substantial shareholder, after acquiring the status of director, supervisor, executive officer or substantial shareholder for a period of six months, to report his or her intent to transfer any shares on the Taiwan Stock Exchange to the ROC Securities and Futures Bureau at least three days before the intended transfer, unless the number of shares to be transferred is less than 10,000 shares.

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In addition, the number of shares that can be sold or transferred on the Taiwan Stock Exchange by any person subject to the restrictions described above on any given day may not exceed:

- o 0.2% of the outstanding shares of the company in the case of a company with no more than 30 million outstanding shares; or
- o 0.2% of 30 million shares plus 0.1% of the outstanding shares exceeding 30 million shares in the case of a company with more than 30 million outstanding shares; or
- o in any case, 5% of the average trading volume (number of shares) on the Taiwan Stock Exchange for the ten consecutive trading days preceding the reporting day on which the director, supervisor, manager or substantial shareholder reports the intended share transfer to the ROC Securities and Futures Bureau.

These restrictions do not apply to sales or transfers of our ADSs.

Common Shares Issued to Substantial Shareholders in Connection with a Merger

The rules and regulations of the Taiwan Stock Exchange impose certain transfer restrictions on common shares of a Taiwan Stock Exchange listed company issued to a substantial shareholder (as defined under the ROC Securities and Exchange Law and described under "--Substantial Shareholders") of an unlisted company to be merged with and into the acquiror. A substantial shareholder of an unlisted company to be merged with and into a Taiwan Stock Exchange listed company is restricted from selling or transferring common shares received in connection with such merger for a period of six months after such shares are listed on the Taiwan Stock Exchange. After the initial six-month lock-up period, such holder is permitted to sell or transfer 50% of its holdings of the common shares received in the merger. After two years from the date of the listing of the common shares, the holder is permitted to sell or transfer an additional 10% of its holdings of the common shares and an additional 10% of the common shares every six months thereafter.

MATERIAL CONTRACTS

Joint Venture Agreement dated October 28, 2003 by and between ASE Inc. and Compeq

This contract was entered into with Compeq to establish the joint venture ASE-Compeq Technologies, Inc., which will focus on the design and production of interconnect materials for packaging semiconductors. We own a 60% equity interest in ASE-Compeq Technologies, Inc. and Compeq owns the remaining 40% equity interest. See "Item 4. Information on the Company--History and Development of the Company--Joint Venture with Compeq Manufacturing Co. Ltd."

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Merger Agreement dated October 28, 2003 by and among ASE Inc., ASE Chung Li and ASE Material

Under this contract, ASE Chung Li and ASE Material merged with and into us. We are the surviving corporation. As a result of the merger, all of the assets and liabilities of ASE Chung Li and ASE Material are now owned and have been assumed by us. The merger was consummated by means of a share exchange pursuant to which each common share of ASE Chung Li not directly owned by us was exchanged for 0.85 ASE Inc. common share and each common share of ASE Material not directly owned by us was exchanged for 0.5 ASE Inc. common share. The merger was completed on August 1, 2004. See "Item 7. Major Shareholders and Related Party Transactions--Related Party Transactions".

Share Sale and Purchase Agreement dated as of February 3, 2004 among NEC Electronics Corporation, NEC Yamagata Ltd., J&R Holding Limited and ASE Inc.

On February 3, 2004, we and J&R Holding Limited, our wholly-owned subsidiary, entered into a share sale and purchase agreement with NEC and NEC Yamagata, Ltd. in connection with the acquisition of the semiconductor packaging and testing business of NEC Yamagata, a wholly-owned subsidiary of NEC. The acquisition was completed on May 31, 2004 and the purchase price, after accounting for certain purchase price adjustments, was approximately US\$25.6 million. The acquisition was consummated by means of a company split under the Japanese Commercial Code through which the packaging and testing business of NEC Yamagata was transferred to a

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company formed by NEC Yamagata named ASE Japan Co., Ltd. Pursuant to the terms and conditions of the share sale and purchase agreement, all of the issued and outstanding shares of ASE Japan were purchased by J&R Holding Limited, and ASE Japan now owns and operates the semiconductor packaging and testing business acquired from NEC Yamagata.

See "Item 4. Information on the Company--Business Overview--Sales and Marketing--Sales and Customer Service Agents" for a summary of contracts we have entered into with agents for sales and customer service.

EXCHANGE CONTROLS

ROC Exchange Controls

The Foreign Exchange Control Statute and regulations provide that all foreign exchange transactions must be executed by banks designated to handle the business, by the ROC Financial Supervisory Commission and by the Central Bank of China. Current regulations favor trade-related foreign exchange transactions. Consequently, foreign currency earned from exports of merchandise and services may now be retained and used freely by exporters, and all foreign currency needed for the importation of merchandise and services may be purchased freely from the designated foreign exchange banks.

Trade aside, ROC companies and resident individuals may, without foreign exchange approval, remit into and outside the ROC foreign currency of up to US\$50 million (or its equivalent) and US\$5 million (or its equivalent) respectively in each calendar year. The above limits apply to remittances involving a conversion of NT dollars to a foreign currency and vice versa. A requirement is also imposed on all enterprises to register medium- and long-term foreign debt with the Central Bank of China.

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In addition, foreign persons may, subject to specified requirements, but without foreign exchange approval of the Central Bank of China, remit outside and into the ROC foreign currencies of up to US\$100,000 (or its equivalent) for each remittance. The above limit applies to remittances involving a conversion of NT dollars to a foreign currency and vice versa. The above limit does not, however, apply to the conversion of NT dollars into other currencies, including U.S. dollars, from the proceeds of sale of any underlying shares withdrawn from a depository receipt facility.

TAXATION

ROC Taxation

The following discussion describes the material ROC tax consequences of the ownership and disposition of the common shares or ADSs to a non-resident individual or non-resident entity that holds the common shares or ADSs (referred to here as a "non-ROC holder"). As used in the preceding sentence, a "non-resident individual" is a foreign national who owns the common shares or ADSs and is not physically present in the ROC for 183 days or more during any calendar year and a "non-resident entity" is a corporation or a non-corporate body that owns the common shares or ADSs, is organized under the laws of a jurisdiction other than the ROC and has no fixed place of business or other permanent establishment in the ROC.

Dividends

Dividends (whether in cash, common shares or ADSs) declared by us out of retained earnings and distributed to a non-ROC holder in respect of common shares or ADSs are subject to ROC withholding tax, currently at the rate of 20% on the amount of the distribution (in the case of cash dividends) or on the par value of the distributed common shares (in the case of stock dividends). A 10% retained earnings tax is imposed on a ROC company for its after-tax earnings generated after January 1, 1998 which are not distributed in the following year. The retained earnings tax so paid will further reduce the retained earnings available for future distribution. When we declare a dividend out of those retained earnings, up to a maximum amount of 10% of the net dividend received will be credited against the 20% withholding tax imposed on the non-ROC holders of our common shares or ADSs.

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It is currently unclear whether dividends paid by us out of our capital reserves are subject to ROC withholding tax because there are two possible interpretations of the relevant tax laws and regulations that lead to different conclusions on whether such dividends will be taxable, and there is currently no authoritative guidance on this issue.

Capital Gains

Under current ROC law, capital gain realized upon the sale or other disposition of securities is exempt from ROC income tax. This exemption currently applies to capital gains derived from the sale of common shares.

Sales of ADSs by non-ROC holders are not regarded as sales of ROC securities and thus any gains derived from transfers of ADSs are not currently subject to ROC income tax.

Sale

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Securities transaction tax will be imposed on the seller at the rate of 0.3% of the transaction price upon a sale of common shares. Transfers of ADSs are not subject to ROC securities transaction tax.

Subscription Rights

Distributions of statutory subscription rights for the common shares in compliance with the ROC Company Law are currently not subject to ROC tax. Proceeds derived from sales of statutory subscription rights evidenced by securities are currently exempted from income tax but are subject to securities transaction tax, currently at the rate of 0.3% of the gross amount received. Proceeds derived from sales of statutory subscription rights which are not evidenced by securities are subject to capital gains tax at the rate of (i) 25% of the gross amount realized for non-resident entities and (ii) 35% of the gross amount realized for non-resident individuals. Subject to compliance with ROC law, we, in our sole discretion, may determine whether statutory subscription rights are securitized.

Inheritance and Gift Tax

ROC inheritance tax is payable on any property within the ROC of a deceased non-resident individual, and ROC gift tax is payable on any property within the ROC donated by a non-resident individual. Inheritance tax is currently imposed at rates ranging from 2% of the first NT\$600,000 to 50% of amounts in excess of NT\$100 million. Gift tax is imposed at rates ranging from 4% of the first NT\$600,000 donated to 50% of amounts donated in excess of NT\$45 million. Under ROC Inheritance and Gift Tax Law, shares and bonds issued by ROC companies are deemed located in the ROC without regard to the location of the owner. It is unclear whether a holder of ADSs will be considered to own common shares for this purpose.

Tax Treaty

At present, the ROC has income tax treaties with Indonesia, Singapore, New Zealand, Australia, the United Kingdom, South Africa, Gambia, Swaziland, Malaysia, Macedonia, the Netherlands, Senegal, Sweden and Vietnam. These tax treaties may limit the rate of ROC withholding tax on dividends paid with respect to common shares in ROC companies. It is unclear whether a non-ROC holder of ADSs will be considered to own common shares for the purposes of such treaties. Accordingly, a holder of ADSs who is otherwise entitled to the benefit of a treaty should consult its own tax advisers concerning eligibility for benefit under the treaty with respect to the ADSs as the case may be. The United States does not have an income tax treaty with the ROC.

United States Federal Income Taxation

The following discussion describes the material U.S. federal income tax consequences of the ownership and disposition of common shares or ADSs to those U.S. holders described below who hold such common shares or ADSs as capital assets for U.S. federal income tax purposes. For these purposes, you are a U.S. holder if you are a beneficial owner of common shares or ADSs that is, for U.S. federal income tax purposes:

- o a citizen or resident of the United States;

- o a corporation, or other entity taxable as a corporation, created or

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organized under the laws of the United States or of any political subdivision of the United States; or

- o an estate or trust the income of which is subject to U.S. federal income tax purposes regardless of its source.

This discussion assumes that we are not a passive foreign investment company, as discussed below.

This discussion does not address all of the tax consequences that may be relevant in light of your particular circumstances. In particular, it does not address all of the tax consequences that may be relevant to holders subject to special rules, including:

- o persons subject to the alternative minimum tax;
- o insurance companies;
- o tax-exempt entities;
- o dealers or traders in securities;
- o financial institutions;
- o partnerships or other entities classified as partnerships for U.S. federal income tax purposes;
- o persons carrying on a trade or business in the ROC;
- o persons who hold or will hold common shares or ADSs as part of an integrated investment, including a straddle, hedging or conversion transaction, comprising common shares or ADSs and one or more other positions for tax purposes;
- o persons whose functional currency is not the U.S. dollar; or
- o persons who own 10% or more of our voting stock.

This discussion is based on the Internal Revenue Code of 1986, as amended, Treasury regulations, administrative announcements and judicial decisions currently in effect. These laws and regulations may change, possibly with retroactive effect. This discussion is also based in part on representations by the depository and assumes that each obligation under the deposit agreement and any related agreement will be performed in accordance with its terms.

In general, for U.S. federal income tax purposes, a U.S. holder of ADSs should be treated as the holder of the common shares represented by the ADSs.

The U.S. Treasury has expressed concerns that parties to whom ADSs are pre-released may be taking actions that are inconsistent with the claiming of foreign tax credits by the holders of ADSs. Such actions would also be inconsistent with the claiming of the reduced rate of tax applicable to dividends received by certain noncorporate U.S. holders. Accordingly, the analysis of the creditability of ROC taxes, both described below, and the availability of the reduced tax rate for dividends received by certain noncorporate U.S. holders, could be affected by actions that may be taken by parties to whom the ADSs are pre-released.

Please consult your tax advisor with regard to the application of the U.S. federal income tax laws to common shares or ADSs as well as any tax consequences arising under the laws of any state, local or non-U.S. taxing jurisdictions.

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Dividends

Distributions paid on common shares or ADSs (other than certain pro rata distributions of common shares to all shareholders, including holders of ADSs), including the amount of any ROC taxes withheld thereon, reduced by any

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credit against the withholding tax on account of the 10% retained earnings tax imposed on us, will constitute foreign source dividend income to the extent paid out of our current or accumulated earnings and profits as determined in accordance with U.S. federal income tax principles. The amount you will be required to include in income for any dividend paid in NT dollars will be equal to the U.S. dollar value of the NT dollars paid, calculated by reference to the exchange rate in effect on the date the payment is received by the depository (in the case of ADSs) or by you (in the case of common shares), regardless of whether the payment is converted into U.S. dollars on the date of receipt. If you realize gain or loss on a sale or other disposition of NT dollars, it will generally be U.S. source ordinary income or loss. The amount of any distribution of property other than cash will be the fair market value of such property on the date of distribution. You will not be entitled to a dividends-received deduction for dividends you receive.

Subject to applicable limitations and the discussion above regarding concerns expressed by the U.S. Treasury, dividends paid to certain noncorporate U.S. holders in taxable years beginning before January 1, 2009 will be taxable at a maximum tax rate of 15%. Noncorporate U.S. holders should consult their own tax advisers to determine whether they are subject to any special rules that limit their ability to be taxed at this favorable rate.

Subject to applicable limitations and restrictions and the discussion above regarding concerns expressed by the U.S. Treasury, the ROC taxes withheld from dividend distributions, reduced by any credit against the withholding tax on account of the 10% retained earnings tax, will be eligible for credit against your U.S. federal income tax liability. The limitation on foreign taxes eligible for credit is calculated separately with respect to specific classes of income.

Certain pro rata distributions of common shares by a company to all of its shareholders, including holders of ADSs, will not be subject to U.S. federal income tax. Accordingly, these distributions will not give rise to U.S. federal income against which the ROC tax imposed on these distributions may be credited. Any ROC tax of this nature will only be creditable against a U.S. holder's U.S. federal income tax liability with respect to income in the general category income, subject to applicable limitations and restrictions.

Capital Gains

You will generally recognize U.S. source capital gain or loss for U.S. federal income tax purposes on the sale or exchange of common shares or ADSs, which will be long-term capital gain or loss if the common shares or ADSs were held for more than one year. The amount of gain or loss will be equal to the difference between your tax basis in the common shares or ADSs disposed of and the amount realized on disposition. You should consult your own tax advisor about the treatment of capital gains, which may be taxed at lower rates than ordinary income for non-corporate taxpayers, and capital losses, the deductibility of which may be limited.

Deposits and withdrawals of common shares by a U.S. holder in exchange for ADSs will not result in realization of gain or loss for U.S. federal income tax

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purposes.

Passive Foreign Investment Company Rules

We believe that we were not a passive foreign investment company for the 2004 taxable year. In general, a foreign corporation is a passive foreign investment company for any taxable year in which (1) 75% or more of its gross income consists of passive income (such as dividends, interest, rents and royalties) or (2) 50% or more of the average quarterly value of its assets consists of assets that produce, or are held for the production of, passive income. The determination of whether we are a passive foreign investment company will be based on the composition of our income and assets, as well as those of our subsidiaries and certain affiliates, from time to time. Since the composition of our income and assets will vary over time, there can be no assurance that we will not be considered a passive foreign investment company for any taxable year. If we are a passive foreign investment company at any time that you own common shares or ADSs:

- o you may be subject to additional taxes and interest charges on any gain realized on the disposition of the common shares or ADSs and on certain "excess distributions" on the common shares or ADSs. The additional taxes are assessed at the highest tax rate applicable for corporate or individual taxpayers for the relevant tax periods;

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- o you will be subject to additional U.S. tax filing requirements for each year that you hold ADSs; and
- o the 15% dividend rate discussed above with respect to dividends paid to certain noncorporate U.S. holders would not apply to dividends paid in any taxable year that we are a PFIC or the taxable year succeeding any taxable year that we are a PFIC.

Please consult your tax advisors about the possibility that ASE Inc. may be a passive foreign investment company and the rules that would apply to you if it were.

DIVIDENDS AND PAYING AGENTS

Not applicable.

STATEMENT BY EXPERTS

Not applicable.

DOCUMENTS ON DISPLAY

We file annual reports on Form 20-F and periodic reports on Form 6-K with the SEC. You can read and copy these reports and other information at the SEC's Public Reference Room at 450 Fifth Street, N.W., Washington, D.C. 20549. You can also request copies of the documents, upon payment of a duplicating fee, by writing to the Public Reference Section of the SEC. Please call the SEC at 1-800-SEC-0330 for further information on the operation of the Public Reference Room. The reports and other information we file electronically with the SEC are also available to the public from the SEC's website at <http://www.sec.gov>.

SUBSIDIARY INFORMATION

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Not applicable.

Item 11. Quantitative and Qualitative Disclosures about Market Risk

Market Risk

Our exposure to financial market risks relates primarily to changes in interest rates and foreign currency exchange rates. To mitigate these risks we utilize derivative financial instruments, the application of which is primarily to manage these exposures and not for speculative purposes.

Interest Rate Risk. Our exposure to interest rate risks relates primarily to our long-term floating rate debt, which is normally incurred to support our corporate activities and capital expenditures. In May 2004, we entered into an interest rate swap contract with a bank to manage our exposure to interest rate fluctuations associated with our long-term debt. The contract will expire in January 2009. The terms of the contract provide for a semi-annual exchange of interest payments whereby we pay NT\$ 90-day BA rate minus 0.70% on an underlying nominal amount of \$2.75 billion.

In May 2004, we entered into an interest rate swaption contract with a bank whereby we pay a floating interest rate, 6-month US\$-LIBOR-BBA and receive a fixed annual rate of 3.65% on a notional amount of US\$20.0 million. Payment dates are November 23, 2005 and May 23, 2006 (the contract expiration date). As of December 31, 2004, the contract's fair value was negative US\$0.03 million.

In April 2004, we entered into an interest rate swaption contract with a bank, which will expire on October 20, 2007. The terms of the contract provide that if the 6-month US\$-LIBOR-BBA rate ever reaches 5% before the expiration of the contract, the interest to be paid to the bank during the contract period will be based on a fixed rate of 2.7% multiplied by the number of days for which the 6-month US\$-LIBOR-BBA rate exceeded 5% divided by the number of days in the contract period. The notional amount of the contract is US\$157.0 million. Payment dates are every April 20 and October 20 starting from October 20, 2004 through the expiration date. As of December 31, 2004, the contract's fair value was negative US\$1.6 million.

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On December 2003, we entered into an interest rate swap contract whereby we pay NT dollars at a 90-day BA rate minus 0.70% in exchange for three possible payoff scenarios: (1) if the US\$ 6-month LIBOR is below 0.95%, we receive the US\$ 6-month LIBOR per annum; (2) if the US\$ 6-month LIBOR is equal to or above 0.95% and equal to or below 2.00%, we receive 3.60% per annum; and (3) if the US\$ 6-month LIBOR is above 2.00%, we receive either 4.00% minus US\$ 6-month LIBOR or 0%, whichever is greater. The contract has a notional amount of NT\$2,750.0 million and expires in January 2009. As of December 31, 2004, the contract's fair value was negative US\$0.06 million.

In October 2003, we entered into two cross-currency swap contracts to hedge against reductions in value caused by changes in foreign currency exchange rates, as well as to manage our exposure to interest rates. See "--Foreign Currency Exchange Rate Risk".

The table below sets forth information relating to our significant obligations that are sensitive to interest rate fluctuations as of December 31, 2004.

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| | Expected Maturity Date | | | | | |
|--------------------------|-----------------------------------|----------|---------|---------|---------|------------|
| | 2005 | 2006 | 2007 | 2008 | 2009 | Thereafter |
| | (in millions, except percentages) | | | | | |
| Short-term debt: | | | | | | |
| Variable rate (NT\$).... | 1,016.8 | - | - | - | - | - |
| Average interest rate | 1.58% | - | - | - | - | - |
| Variable rate (US\$).... | 76.4 | - | - | - | - | - |
| Average interest rate | 4.37% | - | - | - | - | - |
| Variable rate (JP(Y)).. | 25.6 | - | - | - | - | - |
| Average interest rate | 0.78% | - | - | - | - | - |
| Variable rate (EUR).... | 1.3 | - | - | - | - | - |
| Average interest rate | 2.81% | - | - | - | - | - |
| Variable rate (KRW).... | 2,729.9 | - | - | - | - | - |
| Average interest rate | 6.96% | - | - | - | - | - |
| Variable rate (RMB).... | 268.8 | - | - | - | - | - |
| Average interest rate | 5.03% | - | - | - | - | - |
| Long-term debt: | | | | | | |
| Variable rate (NT\$).... | 714.6 | 10,955.2 | 5,230.5 | 6,909.1 | 4,000.3 | 47.5 |
| Average interest rate | 3.83% | 2.78% | 3.04% | 3.60% | 4.36% | 2.91% |
| Fixed rate (NT\$)..... | 42.4 | 44.1 | 25.8 | 1.4 | 0.5 | - |
| Average interest rate | 4.98% | 5.01% | 5.20% | 8.49% | 6.35% | - |
| Variable rate (US\$).... | 40.1 | 169.5 | 106.2 | 81.6 | 13.9 | 4.2 |
| Average interest rate | 4.51% | 4.60% | 4.82% | 4.77% | 4.42% | 5.21% |
| Fixed rate (US\$)..... | 5.4 | 3.1 | 1.9 | 209.7 | - | - |
| Average interest rate | 8.56% | 8.76% | 8.65% | 3.75% | - | - |
| Variable rate (JP(Y)).. | - | 800.0 | - | - | - | - |
| Average interest rate | - | 0.92% | - | - | - | - |
| Variable rate (RMB).... | - | - | 10.2 | 10.2 | 10.2 | 30.4 |
| Average interest rate | - | - | 5.02% | 5.02% | 5.02% | 5.02% |

Foreign Currency Exchange Rate Risk. Our foreign currency exposure gives rise to market risk associated with exchange rate movements against the NT dollar, our functional currency. Currently, the majority of our revenues from packaging and testing services are denominated in U.S. dollars, with a portion denominated in NT dollars. Our costs of revenues and operating expenses associated with packaging and testing services are incurred in several currencies, primarily in NT dollars and U.S. dollars, as well as, to a lesser extent, Malaysian ringgit, Korean won and Japanese yen. In addition, a substantial portion of our capital expenditures, primarily for the purchase of packaging and testing equipment, has been, and is expected to continue to be, denominated primarily in U.S. dollars with the remainder in Japanese yen. Fluctuations in exchange rates, primarily among the U.S. dollar, the NT dollar

and the Japanese yen, will affect our costs and operating margins and could result in exchange losses and increased costs in NT dollar and other local currency terms. Despite hedging and mitigating techniques implemented by us, fluctuations in exchange rates have affected, and may continue to affect, our financial condition and results of operations. We recorded a net foreign exchange loss of NT\$146.2 million (US\$4.6 million), NT\$386.8 million and NT\$397.9 million in 2004, 2003 and 2002, respectively. In 2004, 2003 and 2002, the average exchange rate of the NT dollar to the U.S. dollar was 33.37, 34.40

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and 34.53, respectively, calculated using noon buying rates in The City of New York for cable transfers in NT dollars as certified for customs purposes by the Federal Reserve Bank of New York.

Foreign currency denominated liabilities as of December 31, 2004 include U.S. dollar debt and Japanese yen debt. As of December 31, 2004, approximately 62% of our cash and accounts receivable were denominated in U.S. dollars, with a substantial portion of the remainder denominated in NT dollars. As of December 31, 2004, approximately 72% of our accounts payable and payable for fixed assets were denominated in currencies other than the NT dollar. To protect against reductions in value and the volatility of future cash flows caused by changes in foreign currency exchange rates, we utilize currency forward contracts from time to time to reduce the impact of foreign currency fluctuations on our results of operations. Our policy is to account for these contracts on a mark-to-market rate basis, and the premiums are amortized on a straight-line basis over the life of the contract.

In October 2003, we entered into two cross-currency swap contracts to hedge against reductions in value caused by changes in foreign currency exchange rates and to manage our exposure to interest rates in connection with the proceeds received from our offering of US\$200.0 million zero coupon convertible bonds due 2008.

The terms of one of such contracts provide that we pay NT dollars at a fixed rate of 1.7% and receive U.S. dollars at a fixed rate of 2.7%. The contract rate is US\$/NT\$33.95. The contract has a notional amount of US\$157.0 million/NT\$5,330.2 million and, as of December 31, 2004, had a fair value of negative US\$6.0 million. The contract expires in October 2007.

The terms of the other of such contracts provide that we pay U.S. dollars at a floating rate that is the percentage by which LIBOR is greater than 2% and receive NT dollars at a floating rate that is the percentage by which LIBOR is less than 2%. The contract rate is US\$/NT\$33.95. The contract has a notional amount of US\$43.0 million/NT\$1,459.8 million and, as of December 31, 2004, had a fair value of negative US\$2.9 million. The contract expires in September 2008.

The table below sets forth our outstanding foreign currency option contracts in aggregate terms by type of contract as of December 31, 2004.

Foreign Currency Option Contracts

| | |
|-------------------------------|-------------------|
| Buy US\$ Put/JP(Y) Call | |
| Notional Amount | US\$66.6 million |
| Weighted Average Strike Price | US\$/JP(Y)104.96 |
| Fair Value | US\$0.1 million |
| Buy US\$ Put/KRW Call | |
| Notional Amount | US\$54.0 million |
| Weighted Average Strike Price | US\$/KRW1,062.72 |
| Fair Value | US\$1.3 million |
| Buy US\$ Put/NT\$ Call | |
| Notional Amount | US\$223.0 million |
| Weighted Average Strike Price | US\$/NT\$32.18 |
| Fair Value | US\$4.1 million |
| Buy US\$ Call/NT\$ Call | |
| Notional Amount | US\$43.0 million |
| Weighted Average Strike Price | US\$/NT\$33.95 |

Foreign Currency Option Contracts

| | |
|-------------------------------|-------------------|
| Fair Value | US\$0.1 million |
| Sell US\$ Call/JP(Y) Put | |
| Notional Amount | US\$152.8 million |
| Weighted Average Strike Price | US\$/JP(Y)103.98 |
| Fair Value | (US\$0.1 million) |
| Sell US\$ Call/KRW Put | |
| Notional Amount | US\$104.0 million |
| Weighted Average Strike Price | US\$/KRW1,057.42 |
| Fair Value | (US\$0.9 million) |
| Sell US\$ Call/NT\$ Put | |
| Notional Amount | US\$112.0 million |
| Weighted Average Strike Price | US\$/NT\$32.41 |
| Fair Value | (US\$0.5 million) |
| Sell US\$ Put/NT\$ Call | |
| Notional Amount | US\$157.0 million |
| Weighted Average Strike Price | US\$/NT\$31.37 |
| Fair Value | (US\$3.0 million) |

Item 12. Description of Securities Other Than Equity Securities

Not applicable.

PART II

Item 13. Defaults, Dividend Arrearages and Delinquencies

Not applicable.

Item 14. Material Modifications to the Rights of Security Holders and Use of Proceeds

Not applicable.

Item 15. Controls and Procedures

As of December 31, 2004, we, under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, performed an evaluation of the effectiveness of our disclosure controls and procedures. Based on this evaluation, our Chief Executive Officer and Chief Financial Officer concluded that our disclosure controls and procedures are effective for gathering, analyzing and disclosing the information we are required to disclose in the reports we file under the Exchange Act, within the time periods specified in the SEC's rules and forms. Our management necessarily applied its judgment in assessing the costs and benefits of such controls and procedures, which by their nature can provide only reasonable assurance regarding management's control objectives.

There has been no change in our internal control over financial reporting that occurred during the period covered by this annual report that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

Item 16. [Reserved]

Item 16A. Audit Committee Financial Expert

Under Rule 10A-3 of the Exchange Act and the rules of the New York Stock Exchange, we are required to have an audit committee that meets certain requirements by July 31, 2005. We have identified a potential candidate for our audit committee. Subject to such candidate's election to the board of directors as a new director by our shareholders during our annual shareholders' meeting in June 2005, we anticipate considering such candidate's installation as the audit committee member at a board of directors meeting following such annual shareholders' meeting. We also plan to consider his eligibility to serve as our audit committee financial expert. We have drafted an audit committee charter which is subject to approval by our board of directors upon our establishment of an audit committee.

Item 16B. Code of Ethics

We have drafted a code of ethics for our principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions and we plan to address the adoption of such code of ethics with the board of directors before the end of 2005. Historically, ethical oversight and actual or apparent conflicts of interest have been handled informally by senior management and the board of directors.

Item 16C. Principal Accountant Fees and Services

Policy on Pre-Approval of Audit and Non-Audit Services of Independent Auditors

Until the establishment of our audit committee, the full board of directors is responsible for the oversight of our independent auditor's work. Our board of directors pre-approves all audit and non-audit services provided by our independent auditors, including audit services, audit-related services, tax services and other services, on a case-by-case basis. Accordingly, we have not established any pre-approval policies and procedures. All audit and non-audit services performed by Deloitte & Touche, our independent auditors, after May 6, 2003, the effective date of revised Rule 2-01(c)(7) of Regulation S-X entitled "Audit Committee Administration of the Engagement", were pre-approved by the board of directors.

Independent Auditor Fees

TN Soong & Co, independent public accountants, an associate member firm of Deloitte Touche Tohmatsu, combined on June 1, 2003 with Deloitte & Touche (Taiwan) to establish Deloitte & Touche, a member firm of Deloitte Touche Tohmatsu, or Deloitte & Touche, at which time Deloitte & Touche became our principal independent auditor. Prior to June 1, 2003, TN Soong & Co had served as our principal independent auditor for the periods indicated in the table below.

The following table sets forth the aggregate fees by categories specified below in connection with certain professional services rendered by Deloitte & Touche or TN Soong & Co, as applicable. We did not pay any other fees to our auditors during the periods indicated below.

For the Year Ended December 31,

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| | 2003 | 2004 | |
|----------------------------|----------|------------------------|---------|
| | NT\$ | NT\$ (in thousands) | US\$ |
| Audit fees(1)..... | 26,582.3 | 28,332.3 | 892.6 |
| Audit-related fees(2)..... | 14,898.3 | 39,156.4 | 1,233.7 |
| Tax fees(3)..... | 813.5 | 4,034.6 | 127.1 |
| Other fees(4)..... | 5,454.1 | 410.0 | 12.9 |
| Total..... | 47,748.2 | 71,933.3 | 2,266.3 |

(1) Consists of fees for professional services in connection with the audit of our annual financial statements, reviews of interim financial statements and statutory and regulatory filings or engagements.

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(2) Principally comprises fees associated with the issuance of agreed-upon procedure letters.

(3) Consists of fees for tax advice.

(4) Consists of risk management consulting fees.

Item 16D. Exemptions from the Listing Standards for Audit Committees.

Not applicable.

Item 16E. Purchases of Equity Securities by the Issuer and Affiliated Purchasers.

None of our equity securities were purchased by ourselves or our affiliated purchasers in 2004.

PART III

Item 17. Financial Statements

The Company has elected to provide financial statements for fiscal year 2004 and the related information pursuant to Item 18.

Item 18. Financial Statements

Reference is made to pages F-1 to F-73 of this annual report.

The consolidated financial statements of the Company and the report thereon by its independent auditors listed below are attached hereto as follows:

- (a) Report of Independent Registered Public Accounting Firm of the Company dated February 1, 2005 (page F-1).
- (b) Consolidated Balance Sheets of the Company and subsidiaries as of December 31, 2003 and 2004 (page F-3).
- (c) Consolidated Statements of Income of the Company and subsidiaries for

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the years ended December 31, 2002, 2003 and 2004 (page F-4 to F-6).

- (d) Consolidated Statements of Changes in Shareholders' Equity of the Company and subsidiaries for the years ended December 31, 2002, 2003 and 2004 (page F-7 to F-8).
- (e) Consolidated Statements of Cash Flows of the Company and subsidiaries for the years ended December 31, 2002, 2003 and 2004 (pages F-9 to F-11).
- (f) Notes to Consolidated Financial Statements of the Company and subsidiaries (pages F-12 to F-73).

Item 19. Exhibits

- 1. Articles of Incorporation of the Registrant (in Chinese with English translation) (incorporating all amendments as of May 31, 2005).
- 2. Amended and Restated Deposit Agreement dated as of September 29, 2000 among ASE Inc., Citibank N.A., as depository, and Holders and Beneficial Holders of American Depositary Shares evidenced by American Depositary Receipts issued thereunder, including the form of American Depositary Receipt (incorporated by reference to Exhibit 4.1 to our registration statement on Form F-3 (File No. 333-87428) filed on March 31, 2003).
- 4. (a) Asset Purchase Agreement dated as of July 3, 1999 among ASE (Chung Li) Inc., ASE Inc., Motorola Electronics Taiwan, Ltd. and Motorola, Inc. (incorporated by reference to Exhibit 10.2 to ASE Test's

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registration statement on Form F-3 (File No. 333-10892) filed on September 27, 1999 (the "ASE Test 1999 Form-3").

- (b) Agreement dated as of June 5, 2002 among ASE (Chung Li) Inc., ASE Inc., Motorola Electronics Taiwan, Ltd. and Motorola, Inc. amending certain earn-out arrangements provided for in Section 2.09(b)(ii)(D) of the Asset Purchase Agreement dated as of July 3, 1999 among the same parties (incorporated by reference to Exhibit 4(b) to our annual report on Form 20-F (File No. 001-16125) for the year ended December 31, 2002 filed on June 30, 2003).
- (c) Stock Purchase Agreement dated as of July 3, 1999 among ASE Investment (Labuan) Inc., ASE Inc., Motorola Asia Ltd. and Motorola, Inc. relating to the purchase and sale of 100% of the common stock of Motorola Korea Ltd. (incorporated by reference to Exhibit 10.3 to the ASE Test 1999 Form F-3).
- (d)+ BGA Immunity Agreement dated as of January 25, 1994 between ASE Inc. and Motorola, Inc. (incorporated by reference to Exhibit 10.6 to the Form F-1).
- (e)++ Amendment dated March 18, 2003 renewing the BGA Immunity Agreement dated as of January 25, 1994 between ASE Inc. and Motorola, Inc. (incorporated by reference to Exhibit 4(g) to our annual report on Form 20-F (File No. 001-16125) for the year ended December 31, 2003 filed on June 30, 2004).

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- (f) Consent dated June 10, 2004 to the Assignment of the BGA Immunity Agreement between ASE Inc. and Motorola, Inc. dated January 25, 1994 (incorporated by reference to Exhibit 4(h) to our annual report on Form 20-F (File No. 001-16125) for the year ended December 31, 2003 filed on June 30, 2004).
 - (g) Commission Agreement dated as of August 1, 2004 between ASE Electronics (M) Sdn. Bhd. and Gardex International Limited.
 - (h) Commission Agreement dated as of August 1, 2004 between ASE Test, Inc. and Gardex International Limited.
 - (i) Commission Agreement dated as of August 1, 2004 between ASE (Korea) Inc. and Gardex International Limited.
 - (j) Commission Agreement dated as of August 1, 2004 between Advanced Semiconductor Engineering, Inc. and Gardex International Limited.
 - (k) Joint Venture Agreement dated as of October 28, 2003 by and between ASE Inc. and Compeq Manufacturing Co., Ltd. (in Chinese with English translation) (incorporated by reference to Exhibit 10.51 to our registration statement on Form F-3 (File No. 333-111172) filed on December 15, 2003 (the "December 2003 Form F-3"))
8. List of Subsidiaries.
12. (a) Certification of Jason C.S. Chang, Chief Executive Officer of Advanced Semiconductor Engineering, Inc. required by Rule 13a-14(a) of the Exchange Act.
- (b) Certification of Joseph Tung, Chief Financial Officer of Advanced Semiconductor Engineering, Inc. required by Rule 13a-14(a) of the Exchange Act.
13. Certification of the Chief Executive Officer and the Chief Financial Officer of Advanced Semiconductor Engineering, Inc. required by Rule 13a-14(b) of the Exchange Act and Section 1350 of Chapter 63 of Title 18 of the United States Code.

+ Does not contain portions for which confidential treatment has been granted.

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++ Does not contain portions for which confidential treatment has been requested.

The Company agrees to furnish to the Securities and Exchange Commission upon request a copy of any instrument which defines the rights of holders of long-term debt of the Company and its consolidated subsidiaries.

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SIGNATURES

The registrant hereby certifies that it meets all of the requirements for filing on Form 20-F and that it has duly caused and authorized the undersigned to sign this annual report.

ADVANCED SEMICONDUCTOR
ENGINEERING, INC.

By: /s/ Joseph Tung

Joseph Tung
Chief Financial Officer

Date: June 23, 2005

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| Consolidated Financial Statements of Advanced Semiconductor Engineering, Inc. and Subsidiaries | |
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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

February 1, 2005

The Board of Directors and Shareholders
Advanced Semiconductor Engineering, Inc.

We have audited the accompanying consolidated balance sheets of Advanced Semiconductor Engineering, Inc., a corporation incorporated under the laws of the Republic of China, and its consolidated subsidiaries (the "Company") as of December 31, 2003 and 2004, and the related consolidated statements of income, changes in shareholders' equity and cash flows for each of the years in the three year period ended December 31, 2004, which are required to be prepared in accordance with accounting principles generally accepted in the Republic of China and expressed in New Taiwan dollars. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the Rules Governing the Audit of Financial Statements by Certified Public Accountants, auditing standards

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generally accepted in the Republic of China and the Standards of the Public Company Accounting Oversight Board (United States). These rules and standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. (The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting.) Our audit includes consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Company as of December 31, 2003 and 2004, and the results of their operations and their cash flows for each of the years in the three-year period ended December 31, 2004, in conformity with accounting principles generally accepted in the Republic of China.

As disclosed in Note 3 to the consolidated financial statements, the Company adopted Republic of China Statement of Financial Accounting Standards No. 35 "Impairment of Assets" on December 31, 2004.

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Accounting principles generally accepted in the Republic of China vary in certain significant respects from accounting principles generally accepted in the United States of America. Information relating to the nature and effect of such differences is presented in Note 29 to the consolidated financial statements.

Our audits also comprehended the translation of New Taiwan dollar amounts into U.S. dollar amounts and, in our opinion, such translation has been made in conformity with the basis stated in Note 2. Such U.S. dollar amounts are presented solely for the convenience of the readers.

Deloitte & Touche
Taipei, Taiwan
Republic of China

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CONSOLIDATED BALANCE SHEETS
(Amounts In Thousands, Except Par Value)

| | 2003 |
|---|--------------|
| ASSETS | NT\$ |
| CURRENT ASSETS | |
| Cash and cash equivalents (Notes 2 and 4) | 8,562,425 |
| Short-term investments (Notes 2, 5 and 24) | 3,017,779 |
| Notes receivable | 111,596 |
| Accounts receivable-net (Notes 2, 6 and 23) | 12,798,135 |
| Other receivables (Note 6) | 206,475 |
| Inventories (Notes 2, 3 and 7) | 4,691,771 |
| Deferred income tax assets (Notes 2 and 21) | 1,224,501 |
| Pledged time deposit (Note 24) | 167,426 |
| Prepayments and other | 677,794 |
| Total current assets | 31,457,902 |
| LONG-TERM INVESTMENTS (Notes 2, 3 and 8) | |
| Long-term stock investments-equity method | 4,521,113 |
| Long-term stock investments- cost method | 1,756,542 |
| Prepaid for long-term investments | 12,000 |
| Other long-term investments | 50,000 |
| Other financial assets - non-current | 3,140 |
| Total long-term investments | 6,342,795 |
| PROPERTIES (Notes 2, 9, 16, 23, 24 and 25) | |
| Cost | |
| Land | 3,794,571 |
| Buildings and improvements | 18,391,271 |
| Machinery and equipment | 81,840,769 |
| Transportation equipment | 107,400 |
| Furniture and fixtures | 1,781,292 |
| Leased assets and leasehold improvements | 1,026,848 |
| Long-term land leasehold rights | 60,808 |
| Total cost | 107,002,959 |
| Accumulated depreciation | (48,281,935) |
| Construction in progress | 58,721,024 |
| Machinery in transit and prepayments | 2,425,310 |
| Net properties | 67,339,947 |
| GOODWILL (Notes 2, 3 and 10) | 4,596,234 |
| OTHER ASSETS | |
| Guarantee deposits (Note 24) | 359,908 |

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| | |
|--|-------------|
| Deferred charges (Notes 2 and 25) | 1,519,268 |
| Deferred income tax assets (Notes 2 and 21) | 2,230,229 |
| Other | 477,960 |
| | ----- |
| Total other assets | 4,587,365 |
| | ----- |
| TOTAL | 114,324,243 |
| | ===== |
| | ----- |
| | 2003 |
| | ----- |
| LIABILITIES AND SHAREHOLDERS' EQUITY | NT\$ |
| CURRENT LIABILITIES | |
| Short-term borrowings (Note 11) | 5,048,230 |
| Commercial papers and bank acceptances payable (Notes 11 and 12) | 1,075,965 |
| Notes payable | 4,612 |
| Accounts payable (Note 23) | 6,484,377 |
| Payable for properties | 4,392,340 |
| Income tax payable (Note 21) | 217,846 |
| Current portion of long-term bank loans (Notes 14 and 24) | 5,491,389 |
| Current portion of obligations under capital leases (Notes 2 and 16) | 164,612 |
| Current portion of long-term payable for investments (Note 15) | 2,309,960 |
| Accrued expenses (Note 17) | 1,839,276 |
| Other | 324,244 |
| | ----- |
| Total current liabilities | 27,352,851 |
| | ----- |
| LONG-TERM LIABILITIES | |
| Long-term bonds payable (Notes 2 and 13) | 6,861,232 |
| Long-term bank loans (Notes 14 and 24) | 23,873,312 |
| Obligations under capital leases (Notes 2 and 16) | 105,517 |
| | ----- |
| Total long-term liabilities | 30,840,061 |
| | ----- |
| OTHER LIABILITIES | |
| Accrued pension cost (Notes 2 and 17) | 896,480 |
| Deferred income tax liabilities (Notes 2 and 21) | 34,674 |
| Other (Notes 8 and 26) | - |
| | ----- |
| Total other liabilities | 931,154 |
| | ----- |
| Total liabilities | 59,124,066 |
| | ----- |
| COMMITMENTS AND CONTINGENCIES (Note 25) | |

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| | |
|--|-------------|
| MINORITY INTEREST IN CONSOLIDATED SUBSIDIARIES | 10,077,575 |
| <hr/> | |
| SHAREHOLDERS' EQUITY (Notes 2 and 18) | |
| Capital stock - NT\$10 par value | |
| Authorized - 5,150,000 thousand shares in 2003 and 2004 | |
| Issued - 3,580,280 thousand shares in 2003 and 4,100,000 thousand shares in 2004 | 35,802,800 |
| <hr/> | |
| Capital received in advance | - |
| <hr/> | |
| Capital surplus | |
| Capital in excess of par value | 14,777 |
| Treasury stock transaction | 220,735 |
| Long-term investment | 3,811,262 |
| <hr/> | |
| Total capital surplus | 4,046,774 |
| <hr/> | |
| Retained earnings | 3,808,436 |
| <hr/> | |
| Other equity adjustments | |
| Unrealized loss on long-term investments in shares of stock | (68,833) |
| Cumulative translation adjustments | 1,559,599 |
| Unrecognized pension cost | (16,137) |
| Other | - |
| <hr/> | |
| Total other equity adjustments | 1,474,629 |
| <hr/> | |
| Treasury stock - 366 thousand shares in 2003 and 167,949 thousand shares in 2004 | (10,037) |
| <hr/> | |
| Total shareholders' equity | 45,122,602 |
| <hr/> | |
| TOTAL | 114,324,243 |
| <hr/> | |

The accompanying notes are an integral part of the financial statements.

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ADVANCED SEMICONDUCTOR ENGINEERING, INC. AND ITS SUBSIDIARIES

CONSOLIDATED STATEMENTS OF INCOME
(Amounts In Thousands, Except Share Data)

| | Year Ended December | | |
|-------------------------------|---------------------|------------|------------|
| | 2002 | 2003 | 2004 |
| | NT\$ | NT\$ | NT\$ |
| NET REVENUES (Notes 2 and 28) | | | |
| Packaging | 35,515,397 | 45,026,868 | 64,000,000 |

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| | | | |
|---|-------------|------------|-------|
| Testing | 10,060,635 | 12,142,396 | 16, |
| Other | 10,806 | 142,506 | |
| | ----- | ----- | ----- |
| Total revenues | 45,586,838 | 57,311,770 | 81, |
| | ----- | ----- | ----- |
| COST OF REVENUES (Note 20) | | | |
| Packaging | 29,260,015 | 37,042,539 | 52, |
| Testing | 9,219,424 | 9,287,142 | 12, |
| Other | 12,831 | 136,772 | |
| | ----- | ----- | ----- |
| Total cost of revenues | 38,492,270 | 46,466,453 | 65, |
| | ----- | ----- | ----- |
| GROSS PROFIT | 7,094,568 | 10,845,317 | 16, |
| | ----- | ----- | ----- |
| OPERATING EXPENSES (Notes 2, 10, 20 and 25) | | | |
| Selling | 909,440 | 1,204,912 | 1, |
| General and administrative | 3,595,829 | 4,015,850 | 5, |
| Research and development | 2,048,973 | 2,354,034 | 2, |
| | ----- | ----- | ----- |
| Total operating expenses | 6,554,242 | 7,574,796 | 8, |
| | ----- | ----- | ----- |
| INCOME FROM OPERATIONS | 540,326 | 3,270,521 | 7, |
| | ----- | ----- | ----- |
| NON-OPERATING INCOME | | | |
| Interest (Note 26) | 392,593 | 114,627 | |
| Gain on sale of investment | 101,314 | 618,857 | |
| Other | 481,526 | 336,546 | |
| | ----- | ----- | ----- |
| Total non-operating income | 975,433 | 1,070,030 | |
| | ----- | ----- | ----- |
| NON-OPERATING EXPENSES | | | |
| Interest (Notes 2 and 9) | 1,971,227 | 1,419,352 | |
| Investment loss under equity method (Notes 2 and 8) | 410,348 | 240,656 | |
| Foreign exchange loss, net (Notes 2 and 26) | 397,874 | 386,844 | |
| Realized loss on long-term investments (Note 18) | - | 354,787 | |
| Impairment of long-lived assets (Note 9) | 1,225,555 | - | |
| Other investment loss (Notes 2, 3 and 8) | - | - | |
| Impairment of goodwill (Notes 2, 3 and 10) | - | - | 1, |
| Other | 220,460 | 451,182 | |
| | ----- | ----- | ----- |
| Total non-operating expenses | 4,225,464 | 2,852,821 | 4, |
| | ----- | ----- | ----- |
| INCOME (LOSS) BEFORE INCOME TAX | (2,709,705) | 1,487,730 | 3, |
| | ----- | ----- | ----- |
| INCOME TAX BENEFIT (Notes 2 and 21) | 1,140,324 | 1,278,148 | 1, |
| | ----- | ----- | ----- |
| INCOME (LOSS) BEFORE EXTRAORDINARY LOSS AND CUMULATIVE EFFECT OF CHANGE IN ACCOUNTING PRINCIPLE | (1,569,381) | 2,765,878 | 4, |
| | ----- | ----- | ----- |
| EXTRAORDINARY LOSS (NET OF TAX BENEFIT NT\$11,538 thousand in 2002) (Note 13) | (34,613) | (75,668) | |

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| | Year Ended December | | |
|---|---------------------|-----------|----|
| | 2002 | 2003 | |
| | NT\$ | NT\$ | |
| CUMULATIVE EFFECT OF CHANGE IN ACCOUNTING PRINCIPLE (Note 3) | - | - | |
| MINORITY INTEREST IN NET LOSS (INCOME) OF SUBSIDIARIES | 1,733,029 | 52,586 | (|
| NET INCOME | 129,035 | 2,742,796 | 4, |
| EARNINGS PER SHARE (Note 22) | | | |
| Basic EPS | | | |
| Based on weighted average number of outstanding shares after giving retroactive adjustment to 2003 and 2004 stock dividends | | | |
| Before income tax | | | |
| Income (loss) before extraordinary loss and cumulative effect of change in accounting principle | (0.22) | 0.48 | |
| Extraordinary loss | (0.01) | (0.02) | |
| Cumulative effect of change in accounting principle | - | - | |
| Net income (loss) | (0.23) | 0.46 | |
| After income tax | | | |
| Income before extraordinary loss and cumulative effect of change in accounting principle | 0.05 | 0.76 | |
| Extraordinary loss | (0.01) | (0.02) | |
| Cumulative effect of change in accounting principle | - | - | |
| Net income | 0.04 | 0.74 | |
| Diluted EPS | | | |
| Based on weighted average number of outstanding shares after giving retroactive adjustment to 2003 and 2004 stock dividends | | | |
| Before income tax | | | |
| Income (loss) before extraordinary loss and cumulative effect of change in accounting principle | (0.22) | 0.47 | |
| Extraordinary loss | (0.01) | (0.02) | |
| Cumulative effect of change in accounting principle | - | - | |
| Net income (loss) | (0.23) | 0.45 | |
| After income tax | | | |
| Income before extraordinary loss and cumulative effect of change in accounting principle | 0.05 | 0.75 | |
| Extraordinary loss | (0.01) | (0.02) | |
| Cumulative effect of change in accounting principle | - | - | |

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| | | |
|--|--------|--------|
| Net income | 0.04 | 0.73 |
| EARNINGS PER EQUIVALENT ADS (Note 22) | | |
| Basic EPS | | |
| Based on weighted average number of outstanding shares after giving retroactive effect for the 2003 and 2004 stock dividends | | |
| Before income tax | | |
| Income (loss) before extraordinary loss and cumulative effect of change in accounting principle | (1.10) | 2.39 |
| Extraordinary loss | (0.06) | (0.10) |
| Cumulative effect of change in accounting principle | - | - |
| Net income (loss) | (1.16) | 2.29 |
| After income tax | | |
| Income before extraordinary loss and cumulative effect of change in accounting principle | 0.23 | 3.79 |
| Extraordinary loss | (0.05) | (0.10) |
| Cumulative effect of change in accounting principle | - | - |
| Net income | 0.18 | 3.69 |

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| | Year Ended December | |
|--|---------------------|--------|
| | 2002 | 2003 |
| | NT\$ | NT\$ |
| Diluted EPS | | |
| Based on weighted average number of outstanding shares after giving retroactive effect for the 2003 and 2004 stock dividends | | |
| Before income tax | | |
| Income (loss) before extraordinary loss and cumulative effect of change in accounting principle | (1.10) | 2.37 |
| Extraordinary loss | (0.06) | (0.10) |
| Cumulative effect of change in accounting principle | - | - |
| Net income (loss) | (1.16) | 2.27 |
| After income tax | | |
| Income before extraordinary loss and cumulative effect of change in accounting principle | 0.23 | 3.75 |
| Extraordinary loss | (0.05) | (0.10) |
| Cumulative effect of change in accounting principle | - | - |
| Net income | 0.18 | 3.65 |

The accompanying notes are an integral part of the financial statements.

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ADVANCED SEMICONDUCTOR ENGINEERING, INC. AND ITS SUBSIDIARIES

CONSOLIDATED STATEMENTS OF CHANGES IN SHAREHOLDERS' EQUITY
(Amounts In Thousands)

| | Capital Stock | Capital Received in Advance | Capital in Excess of Par Value | Treasury Stock Trans- action | Capital Surplus | | Long- term Invest- ment | Total |
|---|------------------|--------------------------------------|--------------------------------------|---------------------------------------|--|-----------|----------------------------------|-------|
| | | | | | Gain on Disposal of Propert- ies | | | |
| New Taiwan Dollars BALANCE, JANUARY 1, 2002 | 32,548,000 | - | 3,171,933 | - | 23,109 | 3,656,472 | 6,851,514 | |
| Transfer of ASE Inc. shares held by subsidiaries as treasury stock | - | - | - | - | - | - | - | |
| Reversal of prior years' gain on disposal of properties | - | - | - | - | (23,109) | - | (23,109) | |
| Legal reserve offsets against deficit | - | - | - | - | - | - | - | |
| Reversal of unrealized loss on long-term investments in share of stock | - | - | - | - | - | - | - | |
| Adjustment of equity in subsidiary due to change in percentage of ownership | - | - | - | - | - | 104,474 | 104,474 | |
| Adjustment of equity in subsidiary due to reversal of oprior years' gain on disposal of properties | - | - | - | - | - | (7,352) | (7,352) | |
| Consolidated net | | | | | | | | |

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| | | | | | | | | |
|---|------------|--------|-------------|---------|---|-----------|-------------|---------|
| income in 2002 | - | - | - | - | - | - | - | - |
| Cumulative translation adjustments | - | - | - | - | - | - | - | - |
| <hr/> | | | | | | | | |
| BALANCE, DECEMBER 31, 2002 | 32,548,000 | - | 3,171,933 | - | - | 3,753,594 | 6,925,527 | |
| Appropriations of 2002 earnings | | | | | | | | |
| Legal reserve | - | - | - | - | - | - | - | - |
| Compensation to directors and supervisors | - | - | - | - | - | - | - | - |
| Bonus to employees - cash | - | - | - | - | - | - | - | - |
| Stock dividends - 0.3% | 97,644 | - | - | - | - | - | - | - |
| Capital surplus transfer to common stock - 9.7% | 3,157,156 | - | (3,157,156) | - | - | - | (3,157,156) | |
| Sales of ASE Inc. shares held by subsidiaries | - | - | - | 220,735 | - | - | - | 220,735 |
| Adjustment of equity in subsidiary due to change in percentage of ownership | - | - | - | - | - | 57,668 | 57,668 | |
| Adjustment of equity in subsidiary due to unrecognized pension cost | - | - | - | - | - | - | - | - |
| Consolidated net income in 2003 | - | - | - | - | - | - | - | - |
| Cumulative translation adjustments | - | - | - | - | - | - | - | - |
| <hr/> | | | | | | | | |
| BALANCE, DECEMBER 31, 2003 | 35,802,800 | - | 14,777 | 220,735 | - | 3,811,262 | 4,046,774 | |
| Appropriations of 2003 earnings | | | | | | | | |
| Legal reserve | - | - | - | - | - | - | - | - |
| Compensation to directors and supervisors | - | - | - | - | - | - | - | - |
| Bonus to employees - cash | - | - | - | - | - | - | - | - |
| Bonus to employees - stock | 154,272 | - | - | - | - | - | - | - |
| Stock dividends - 5.7% | 2,219,774 | - | - | - | - | - | - | - |
| Capital received in advance from stock option exercised by employees | - | 42,759 | - | - | - | - | - | - |

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| | | | | | | | |
|---|-------------------|---------------|------------------|----------------|----------|------------------|------------------|
| Transfer of ASE Inc. shares held by subsidiaries as treasury stock | - | - | - | - | - | - | - |
| Evaluation on derivatives financial instruments - loss | - | - | - | - | - | - | - |
| Adjustment of equity in subsidiary due to change in percentage of ownership | - | - | - | - | - | 15,332 | 15,332 |
| Unrealized loss on long-term investment | - | - | - | - | - | - | - |
| Issuance of common stock through merge | 2,823,154 | - | 3,153,342 | - | - | - | 3,153,342 |
| Elimination of long-term investment balance on consolidation | - | - | - | - | - | (242,792) | (242,792) |
| Consolidated net income in 2004 | - | - | - | - | - | - | - |
| Adjustment of equity in subsidiary due to unrecognized pension cost | - | - | - | - | - | - | - |
| Cumulative translation adjustments | - | - | - | - | - | - | - |
| BALANCE, DECEMBER 31, 2004 | 41,000,000 | 42,759 | 3,168,119 | 220,735 | - | 3,583,802 | 6,972,656 |

| | Unrealized Loss on Long-term Investments in Shares of Stock | Cumulative Translation Adjustments | Unrecognized Pension Cost | Other |
|---|--|--|---------------------------------|-------|
| New Taiwan Dollars BALANCE, JANUARY 1, 2002 | (442,246) | 1,973,399 | - | - |
| Transfer of ASE Inc. shares held by subsidiaries as treasury stock | - | - | - | - |
| Reversal of prior years' gain on disposal of properties | - | - | - | - |
| Legal reserve offsets against deficit | - | - | - | - |
| Reversal of unrealized loss on long-term investments in share of stock | 18,626 | - | - | - |
| Adjustment of equity in subsidiary due to change in percentage of ownership | - | - | - | - |
| Adjustment of equity in subsidiary | - | - | - | - |

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| | | | | |
|---|-----------|-----------|----------|-------------|
| due to reversal of prior years' gain on disposal of properties | - | - | - | - |
| Consolidated net income in 2002 | - | - | - | - |
| Cumulative translation adjustments | - | (126,378) | - | - |
| | ----- | ----- | ----- | ----- |
| BALANCE, DECEMBER 31, 2002 | (423,620) | 1,847,021 | - | - |
| Appropriations of 2002 earnings | | | | |
| Legal reserve | - | - | - | - |
| Compensation to directors and supervisors | - | - | - | - |
| Bonus to employees - cash | - | - | - | - |
| Stock dividends - 0.3% | - | - | - | - |
| Capital surplus transfer to common stock - 9.7% | - | - | - | - |
| Sales of ASE Inc. shares held by subsidiaries | 354,787 | - | - | - |
| Adjustment of equity in subsidiary due to change in percentage of ownership | - | - | - | - |
| Adjustment of equity in subsidiary due to unrecognized pension cost | - | - | (16,137) | - |
| Consolidated net income in 2003 | - | - | - | - |
| Cumulative translation adjustments | - | (287,422) | - | - |
| | ----- | ----- | ----- | ----- |
| BALANCE, DECEMBER 31, 2003 | (68,833) | 1,559,599 | (16,137) | - |
| Appropriations of 2003 earnings | | | | |
| Legal reserve | - | - | - | - |
| Compensation to directors and supervisors | - | - | - | - |
| Bonus to employees - cash | - | - | - | - |
| Bonus to employees - stock | - | - | - | - |
| Stock dividends - 5.7% | - | - | - | - |
| Capital received in advance from stock option exercised by employees | - | - | - | - |
| Transfer of ASE Inc. shares held by subsidiaries as treasury stock | - | - | - | (2,798,399) |
| Evaluation on derivatives financial instruments - loss | - | - | - | (36,607) |
| Adjustment of equity in subsidiary due to change in percentage of ownership | - | - | - | - |
| Unrealized loss on long-term investment | (1,781) | - | - | - |
| Issuance of common stock through merger | - | - | - | - |
| Elimination of long-term investment balance on consolidation | - | - | - | - |
| Consolidated net income in 2004 | - | - | - | - |
| Adjustment of equity in subsidiary due to unrecognized pension cost | - | - | 11,427 | - |
| Cumulative translation adjustments | - | (919,220) | - | - |
| | ----- | ----- | ----- | ----- |
| BALANCE, DECEMBER 31, 2004 | (70,614) | 640,379 | (4,710) | (36,607) |
| | ===== | ===== | ===== | ===== |

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ADVANCED SEMICONDUCTOR ENGINEERING, INC. AND ITS SUBSIDIARIES

CONSOLIDATED STATEMENTS OF CHANGES IN SHAREHOLDERS' EQUITY
(Amounts In Thousands)

| | Capital Surplus | | | | | | | Total |
|---|-----------------|-----------------------------|--------------------------------|-----------------------------|---------------------------------|-----------------------|---------|-------|
| | Capital Stock | Capital Received in Advance | Capital in Excess of Par Value | Treasury Stock Trans-action | Gain on Disposal of Proper-ties | Long-term Invest-ment | | |
| New Taiwan Dollars | | | | | | | | |
| U.S. Dollars | | | | | | | | |
| BALANCE, | | | | | | | | |
| JANUARY 1, 2004 | 1,128,003 | - | 466 | 6,954 | - | 120,077 | 127,497 | |
| Appropriations of 2003 earnings | | | | | | | | |
| Legal reserve | - | - | - | - | - | - | - | |
| Compensation to directors and supervisors | - | - | - | - | - | - | - | |
| Bonus to employees | | | | | | | | |
| - cash | - | - | - | - | - | - | - | |
| Bonus to employees | | | | | | | | |
| - stock | 4,860 | - | - | - | - | - | - | |
| Stock dividends - 5.7% | 69,936 | - | - | - | - | - | - | |
| Capital received in advance from stock option exercised by employees | - | 1,347 | - | - | - | - | - | |
| Transfer of ASE Inc. shares held by subsidiaries as treasury stock | - | - | - | - | - | - | - | |
| Evaluation on derivative financial instruments - loss | - | - | - | - | - | - | - | |
| Adjustment of equity in subsidiary due to change in percentage of ownership | - | - | - | - | - | 483 | 483 | |
| Unrealized loss on | | | | | | | | |

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| | | | | | | | |
|---|------------------|--------------|---------------|--------------|----------|----------------|----------------|
| long-term investment | - | - | - | - | - | - | - |
| Issuance of common stock through merger | 88,946 | - | 99,349 | - | - | - | 99,349 |
| Elimination of long-term investment balance on consolidation | - | - | - | - | - | (7,649) | (7,649) |
| Consolidated net income in 2004 | - | - | - | - | - | - | - |
| Adjustment of equity in subsidiary due to unrecognized loss on pension cost | - | - | - | - | - | - | - |
| Cumulative translation adjustments | - | - | - | - | - | - | - |
| BALANCE, DECEMBER 31, 2004 | 1,291,745 | 1,347 | 99,815 | 6,954 | - | 112,911 | 219,680 |

| | Unrealized Loss | Cumulative Translation Adjustments | Unrecognized Pension Cost | Other | Treasury Stock |
|--|-----------------|------------------------------------|---------------------------|----------|----------------|
| New Taiwan Dollars | | | | | |
| U.S. Dollars | | | | | |
| BALANCE, JANUARY 1, 2004 | (2,169) | 49,137 | (508) | - | (31) |
| Appropriations of 2003 earnings | | | | | |
| Legal reserve | - | - | - | - | |
| Compensation to directors and supervisors | - | - | - | - | |
| Bonus to employees - cash | - | - | - | - | |
| Bonus to employees - stock | - | - | - | - | |
| Stock dividends - 5.7% | - | - | - | - | |
| Capital received in advance from stock option exercised by employees | - | - | - | - | |
| Transfer of ASE Inc. shares held by subsidiaries as treasury stock | | - | - | - | (88,16) |
| Evaluation on derivative financial instruments - loss | - | - | - | (1,153) | |
| Adjustment of equity in subsidiary due to change in | | | | | |

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| | | | | | |
|---|---------|----------|-------|---------|----------|
| percentage of ownership | - | - | - | - | - |
| Unrealized loss on long-term investment | (56) | - | - | - | - |
| Issuance of common stock through merger | - | - | - | - | - |
| Elimination of long-term investment balance on consolidation | - | - | - | - | - |
| Consolidated net income in 2004 | - | - | - | - | - |
| Adjustment of equity in subsidiary due to unrecognized loss on pension cost | - | - | 360 | - | - |
| Cumulative translation adjustments | - | (28,961) | - | - | - |
| BALANCE, DECEMBER 31, 2004 | (2,225) | 20,176 | (148) | (1,153) | (88,481) |

The accompanying notes are an integral part of the financial statement

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ADVANCED SEMICONDUCTOR ENGINEERING, INC. AND ITS SUBSIDIARIES

CONSOLIDATED STATEMENTS OF CASH FLOWS
(Amounts In Thousands)

| | Year Ended December | |
|---|---------------------|------------|
| | 2002 | 2003 |
| | NT\$ | NT\$ |
| CASH FLOWS FROM OPERATING ACTIVITIES | | |
| Net income | 129,035 | 2,742,796 |
| Adjustments to reconcile net income to net cash provided by operating activities: | | |
| Minority interest in net income (loss) of subsidiaries | (1,733,029) | (52,586) |
| Depreciation | 11,841,331 | 12,210,910 |
| Amortization | 444,995 | 555,658 |
| Investment loss under equity method | 410,348 | 240,656 |
| Impairment of goodwill | - | - |
| Other investment loss | - | - |
| Accrued interest on foreign convertible bonds | 576,437 | 358,286 |
| Exchange gain on: | | |
| Long-term foreign bonds payable | (69,321) | (110,655) |
| Long-term foreign investment payable | (34,926) | (62,747) |
| Provision for doubtful accounts and sales allowance | 85,823 | 207,018 |
| Gain on sale of investments | (101,314) | (618,857) |
| Allowance for inventory valuation | - | 240,844 |
| Loss on early redemption of foreign convertible bonds | 46,151 | 75,668 |
| Loss from sale of treasury stock | - | 354,787 |
| Reversal of accrued interest from long-term investment | | |

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| | | |
|---|--------------|--------------|
| payable | (145,238) | - |
| Impairment loss of long-lived assets | 1,225,555 | - |
| Loss on disposal of properties | 15,668 | 62,792 |
| Loss on assets to be disposed of | 78,120 | 176,841 |
| Amortization of goodwill | 815,573 | 819,253 |
| Loss (gain) on derivative financial instruments | - | (3,140) |
| Deferred income taxes | (1,130,358) | (1,190,500) |
| Accrued pension cost | 122,233 | 479,809 |
| Effect of exchange rate changes | 65,858 | 211,640 |
| Other | - | - |
| Changes in operating assets and liabilities | | |
| Notes receivable | (7,482) | 1,071 |
| Accounts receivable | (1,950,738) | (4,119,274) |
| Other receivable | - | (76,165) |
| Inventories | (363,216) | (1,800,963) |
| Prepayments and other current assets | (231,154) | 160,329 |
| Notes and accounts payable | 1,078,392 | 2,441,818 |
| Income tax payable | (72,165) | 45,393 |
| Accrued expenses and other current liabilities | 217,222 | (44,449) |
| | ----- | ----- |
| Net cash provided by operating activities | 11,313,800 | 13,306,233 |
| | ----- | ----- |
| CASH FLOWS FROM INVESTING ACTIVITIES | | |
| Acquisition of properties | (12,657,920) | (17,534,057) |
| Decrease (increase) in short-term investments | 2,112,050 | (371,561) |
| Decrease (increase) in pledged time deposits | (287,794) | 261,317 |
| Payments for long-term stock investments | (49,716) | (138,019) |
| Increase in other assets | (831,279) | (1,125,361) |
| Proceeds from sales of: | | |
| Properties | 77,142 | 250,535 |
| Others | - | 105,536 |
| Purchase of ASE Japan Co., Ltd. shares | - | - |
| Purchase of ASE (U.S.) Inc. shares | - | - |
| Purchase of ASE Material Inc. shares | (10,000) | (20,976) |
| Purchase of ASE Test Limited shares | (317,004) | - |
| Purchase of ISE Labs, Inc. shares | (1,755,133) | - |
| | ----- | ----- |
| Net cash used in investing activities | (13,719,654) | (18,572,586) |
| | ----- | ----- |

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| | Year Ended D | |
|--|--------------|-----------|
| | 2002 | 2003 |
| | ----- | ----- |
| | NT\$ | NT\$ |
| CASH FLOWS FROM FINANCING ACTIVITIES | | |
| Proceeds from (repayments of): | | |
| The issuance of foreign convertible bonds | - | 6,684,882 |
| The issuance of domestic secured bonds | - | - |
| Long-term debts | 1,161,489 | (102,881) |
| Investment payable | (249,250) | (954,411) |
| Commercial papers and bank acceptances payable | (1,739,263) | (629,086) |

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| | | |
|--|-------------|-------------|
| Proceeds from sales of ASE Inc. shares | - | 2,850,524 |
| Proceeds from short-term borrowings | 2,375,322 | 1,161,183 |
| Early redemption of foreign convertible bonds | (1,674,053) | (4,908,389) |
| Increase in minority interest | 656,246 | 119,368 |
| Compensation to directors and supervisors and bonus to employees | - | (10,280) |
| Capital received in advance | - | - |
| | ----- | ----- |
| Net cash provided by financing activities | 530,491 | 4,210,910 |
| | ----- | ----- |
| EFFECT OF EXCHANGE RATE CHANGES | (65,858) | (211,640) |
| | ----- | ----- |
| NET DECREASE IN CASH AND CASH EQUIVALENTS | (1,941,221) | (1,267,083) |
| CASH AND CASH EQUIVALENTS, BEGINNING OF YEAR | 11,770,729 | 9,829,508 |
| | ----- | ----- |
| CASH AND CASH EQUIVALENTS, END OF YEAR | 9,829,508 | 8,562,425 |
| | ===== | ===== |
| SUPPLEMENTAL INFORMATION | | |
| Interest paid (excluding capitalized interest) | 1,248,726 | 1,120,215 |
| Income tax paid | 88,884 | 57,633 |
| Cash paid for acquisition of properties | | |
| Acquisition of properties | 15,749,807 | 17,234,324 |
| Decrease (increase) in payable | (2,566,359) | 102,488 |
| Decrease (increase) in obligation under capital leases | (525,528) | 197,245 |
| | ----- | ----- |
| | 12,657,920 | 17,534,057 |
| | ===== | ===== |
| Cash received from issuance of foreign convertible bonds | | |
| Proceeds | - | 6,818,000 |
| Issuance expense | - | (119,315) |
| Increase in payable | - | (13,803) |
| | ----- | ----- |
| Net cash inflow | - | 6,684,882 |
| | ===== | ===== |
| Cash received from issuance of domestic secured bonds | | |
| Proceeds | - | - |
| Issuance expense | - | - |
| | ----- | ----- |
| Net cash inflow | - | - |
| | ===== | ===== |
| Cash paid for redemption of foreign convertible bonds | | |
| Redemption price for foreign convertible bonds | 3,242,110 | 4,908,389 |
| Cash paid from sinking fund | (1,568,057) | - |
| | ----- | ----- |
| | 1,674,053 | 4,908,389 |
| | ===== | ===== |
| Total assets acquired from acquisition of ASE Japan Co., Ltd. | - | - |
| Less: Liabilities assumed | - | - |
| | ----- | ----- |
| Cash paid | - | - |
| Less: Cash received at the date of acquisition | - | - |
| | ----- | ----- |
| Net cash outflow | - | - |
| | ===== | ===== |

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| | | |
|---|-------|-------|
| Total assets acquired from acquisition of ASE (U.S.) Inc. | - | - |
| Less: Liabilities assumed | - | - |
| | ----- | ----- |
| Cash paid | - | - |
| Less: Cash received at the date of acquisition | - | - |
| | ----- | ----- |
| Net cash outflow | - | - |
| | ===== | ===== |

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| | Year Ended D | |
|---|--------------|-----------|
| | 2002 | 2003 |
| | ----- | ----- |
| | NT\$ | NT\$ |
| NON-CASH FLOWS FROM INVESTING AND FINANCING | | |
| ACTIVITIES | | |
| Reclassification of the ASE Inc. shares held by consolidated subsidiaries from long-term investment to treasury stock | 2,639,826 | - |
| Reversal of treasury stock due to sale of ASE Inc.'s shares held by consolidated subsidiaries | - | 1,405,632 |

The accompanying notes are an integral part of the financial statements.

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ADVANCED SEMICONDUCTOR ENGINEERING, INC. AND ITS
SUBSIDIARIES

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS
DECEMBER 31, 2002, 2003 AND 2004

(Amounts in Thousands, Except Share Data and Unless Otherwise Stated)

1. HISTORY AND ORGANIZATION

Overview

Advanced Semiconductor Engineering, Inc. (the "Company"), a corporation incorporated under the laws of Republic of China (the "ROC"), is an independent provider of semiconductor packaging and testing services and is engaged in design and production of leadframes and substrates in the packaging of semiconductors. The Company's common shares are traded on the Taiwan Stock Exchange under the symbol "2311". Since September 2000, the Company's common shares in the form of American depositary shares ("ADS") have been traded on the New York Stock Exchange under the symbol "ASX". The

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Company and its consolidated subsidiaries and affiliates are together referred to as the "ASE Group".

On July 1, 2003, ASE Investment Inc. and ASE Capital Inc. were merged with and into the Company. On October 28, 2003, the Board of Directors of the Company passed a resolution whereby ASE (Chung Li) Inc. ("ASE Chung Li") and ASE Material Inc. ("ASE Material") would be merged into the Company. The Company issued 282,315 thousand shares, in connection with the merger at exchange ratios of 0.85 of the Company's share for one ASE Chung Li share and 0.5 of the Company's share for one ASE Material share. Upon completion of the merger, all of the assets and liabilities of ASE Chung Li and ASE Material were assumed by the Company. The merger was effective on August 1, 2004.

As of December 31, 2003 and 2004, the Company and its subsidiaries had 24,443 and 34,649 employees, respectively.

Set forth is a brief overview of the Company's organizational structure and its respective equity stake in its consolidated subsidiaries.

The Company has six wholly-owned subsidiaries:

- a. ASE Holding Limited (incorporated in Bermuda in April 1990), which holds shares in ASE Group companies;
- b. ASE Marketing Services Ltd. (incorporated in Hong Kong in February 1991), which engages in trading;
- c. J&R Holding Limited (incorporated in Bermuda in May 1996), which holds shares in ASE Group companies;
- d. ASE Marketing & Service Japan Co., Ltd. (incorporated in Japan in December 2003), which engages in marketing and provides sales services relating to packaging and testing.
- e. Omniquest Industrial Ltd. (ASE Chung Li's wholly-owned subsidiary, incorporated in the British Virgin Islands in June 2001, which holds shares in ASE (Shanghai) Inc. On August 1, 2004, when ASE Chung Li was merged with and into the Company, the Company assumed the investment in Omniquest), which holds shares in ASE Group companies; and
- f. Innosource Limited (incorporated in the British Virgin Islands in August 2004, which holds shares in ASE (Kun Shan) Inc.), which holds shares in ASE Group companies.

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As of December 31, 2004, the Company also held:

- a. 99.5% equity stake in ASE Technologies, Inc. (incorporated in the ROC in June 1991), which is engaged in the research and development, manufacture and sales of computers and related accessories;
- b. 90.0% equity stake in ASE Network Inc. (incorporated in the ROC in January 2000), which has a 1.13% equity stake in Taiwan Fixed Network Co., Ltd.; and
- c. 60.0% equity stake in ASE-Compeq Technologies, Inc. (incorporated in

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the ROC in February 2004), which is engaged in the manufacture and sale of electronic components.

ASE Holding Limited has the following wholly-owned or majority-owned subsidiaries:

- a. ASEP Realty Corporation (incorporated in the Philippines in December 1995), which holds real estate of ASE Holding Electronics (Philippines);
- b. ASE Holding Electronics (Philippines) Incorporated (incorporated in the Philippines in December 1995), which manufactures electronic products, components and semiconductors. However, the board of ASE Holding Electronics (Philippines) Incorporated decided to close the facilities and discontinued operation in December 2003; and
- c. 70.0% equity stake in ASE Investment (Labuan) Inc. (incorporated in Malaysia in June 1999), which holds shares of ASE Korea Inc. In addition, ASE Test Limited has a 30.0% equity stake in ASE Investment (Labuan) Inc.

A portion of the share capital of the Company's subsidiaries incorporated in Philippines is held by certain Filipino individuals, on behalf of the Company, in order to comply with certain legal requirements.

J&R Holding Limited has five subsidiaries:

- a. 100.0% equity stake of J&R Industrial Inc. (incorporated in the ROC in April 1999), which is mainly engaged in the leasing of substrate, packaging and testing equipment, to consolidated subsidiaries of the Company;
- b. 100.0% equity stake of Grand Innovation Co., Ltd. (incorporated in the British Virgin Islands in March 2001), which holds convertible preferred stock of Integrated Programmable Communication, Inc. that represents a 6.1% equity interest;
- c. 100% equity stake of ASE Japan Co., Ltd. (incorporated in the Japan in May 2004), which is engaged in the packaging and testing of semiconductors;
- d. 100% equity stake of ASE (U.S.) Inc. (incorporated in the USA in July 2002), which is engaged in marketing and provides sales services relating to packaging and testing; and
- e. 39.8% equity stake of ASE Test Limited ("ASE Test") (incorporated in Singapore in May 1996), which holds shares in ASE Group companies.

In addition, as of December 31, 2004, ASE Holding Limited held an 11.1% equity stake in ASE Test. The shares of ASE Test have been listed on the NASDAQ National Market in the United States since June 1996.

ASE Test has one 99.99%-owned and three wholly-owned subsidiaries:

- a. ASE Test, Inc. (incorporated in the ROC in December 1987 and 99.99%-owned by ASE Test), which is engaged in the testing of semiconductors;

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- b. ASE Holding (Singapore) Pte Ltd (incorporated in Singapore in December 1994), which holds shares in ASE Group companies;
- c. ASE Test Holdings, Limited ("ASE Test Holdings") (incorporated in Cayman Islands in April 1999), which mainly holds shares in ASE Group companies; and
- d. ASE Test Finance Limited ("ASE Test Finance") (incorporation in Mauritius in June 1999), which is engaged in financing activities.

ASE Test, Inc. has a wholly-owned subsidiary, ASE Test (USA) Inc. (incorporated in the United States in October 1995), which was dissolved in 2003.

ASE Holding (Singapore) Pte Ltd has a wholly-owned subsidiary, ASE Electronics (M) Sdn., Bhd. ("ASE Test Malaysia") (incorporated in Malaysia in February 1991), which is engaged in the packaging and testing of semiconductors.

ASE Test Holdings has a wholly-owned subsidiary, ISE Labs, Inc. ("ISE Labs"). Incorporated in California, U.S.A. in November 1983, ISE Labs and its wholly-owned subsidiaries, ISE Labs Hong Kong Limited, ASE Singapore Pte Ltd, ISE Technology, Inc. and Digital Testing Services Inc. are engaged in the front-end engineering testing and final testing of semiconductors.

ASE Investment (Labuan) Inc. has a wholly-owned subsidiary, ASE Korea Inc. ("ASE Korea") (incorporated in the Republic of Korea in 1999), which is engaged in the packaging and testing of semiconductors.

2. SIGNIFICANT ACCOUNTING POLICIES

The accompanying consolidated financial statements have been prepared in conformity with generally accepted accounting principles in the ROC ("ROC GAAP"). Significant accounting policies are summarized as follows:

Basis of Presentation

The Company prepares its consolidated financial statements in accordance with ROC GAAP and prepares a reconciliation to generally accepted accounting principles in the United States ("U.S. GAAP") (see Note 29). The accompanying consolidated balance sheets are presented as of December 31, 2003 and 2004, and the accompanying consolidated statements of income, changes in shareholders' equity and cash flows are presented for each of the three years ended December 31, 2002, 2003 and 2004.

Unless otherwise stated and except for share and per share information, amounts presented are in thousands of New Taiwan dollars (NT\$).

Basis of Consolidation

The consolidated financial statements include the accounts of the Company and all of the aforementioned subsidiaries.

All intercompany accounts and transactions have been eliminated and minority shareholders' interests in the equity and earnings of the subsidiaries are presented separately in the consolidated financial statements. The differences between the costs of investments and the proportionate equity in each subsidiary when the stocks were acquired are recorded as goodwill and are amortized over ten years.

Use of Estimates

The preparation of consolidated financial statements in conformity with ROC GAAP requires management to make estimates and judgments that affect the recorded amounts of assets, liabilities, revenues and expenses of the Company. The Company continually evaluates these estimates, including those related to allowances for doubtful accounts and sales allowances, inventories, useful lives of properties, long-term investment, goodwill, income tax valuation allowances, pension plans and the fair value of financial instruments. The Company bases its estimates on historical experience and other assumptions, which it believes to be reasonable under the circumstances. Actual results may differ from these estimates under different assumptions and conditions.

Current and Non-current Assets and Liabilities

Current assets include cash or cash equivalents and other assets that are reasonably expected to be realized in cash, or to be consumed within one year from the balance sheet date. All other assets are classified as non-current assets.

Current liabilities are liabilities which are reasonably expected to be liquidated within one year. All other liabilities are classified as non-current.

Cash Equivalents

The Company considers all highly liquid investments within an original maturity from date of purchase of three months or less to be cash equivalents.

Short-term Investments

Short-term investments are carried at cost less allowance for a decline in market value, if any.

Sales of Accounts Receivable

The following three conditions must be met before sales of accounts receivable are recorded:

- a. the accounts receivable have been legally isolated from the Company and its creditors;
- b. the transferees have obtained the right to pledge or exchange accounts receivable, either the transferred accounts receivable or beneficial interest in the transferred assets; and
- c. the transferor does not maintain effective control over the transferred accounts receivable through an agreement to repurchase or redeem them prior to maturity.

If the three conditions are met, the difference between the proceeds and the face value of the accounts receivable is recognized as a loss on the sales of accounts receivable.

Allowance for Doubtful Accounts

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Allowance for doubtful accounts is provided based on an analysis of the aging of accounts and an evaluation of the collectibility of receivables.

The total amount of the provision is determined based on the identification of customers that the Company determines to have a higher credit risk based on overdue accounts, past collection difficulties or their overall financial condition. An estimation is made based on the extent to which the customer will be able to meet its financial obligations to the Company and a provision is recorded to reduce the accounts receivable balance to the amount the Company reasonably believes will be collected. For all other customers, an allowance is equal to a percentage of the aggregate accounts receivable based on history of collection. An allowance for these other customers ranges between 3% and 4%, on a consolidated basis, of the Company's

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accounts receivable.

Inventories

Inventories are stated at the lower of the weighted average cost or market value. Unbilled processing charges incurred are included in finished goods and work in process and are stated at actual cost. Market value represents net realizable value for finished goods and work in process, and replacement costs for raw materials, supplies and spare parts.

Materials received from customers for processing, mainly semiconductor wafers, are excluded from inventories as title and risk of loss remains with the customers.

At the start of 2004, the Company elected to change its method of accounting for the costs of raw materials and supplies from the weighted-average method to the moving-average method, as the Company believes this provides a more precise measurement of the costs (Note 3).

Long-term Investments in Shares of Stock

Long-term investments of which the Company owns at least 20% of the outstanding voting shares and where the Company exercises significant influence over the investee company's operations are accounted for by the equity method. Under the equity method, the investments are initially carried at cost and subsequently adjusted for the Company's proportionate share in the net earnings or losses of the investee companies. Such proportionate share in the earnings or losses are recognized as investment income or losses while any cash dividends declared are reflected as a reduction in the carrying value of the investments. If an investor's share of the investee's losses exceeds the carrying amount of the investment, it is appropriate for the investor to continue to recognize investment loss by the investor's proportionate share and record a corresponding liability if the Company has an obligation to provide further financial support or if the investee's losses are considered temporary and a return to profitable operations appears to be assured. The goodwill representing the excess of the investment cost over the Company's proportionate equity in the fair value of the net assets of the investees at the time of investments or at the time the equity method of accounting is first applied to a particular investment, is amortized on the straight-line method over ten years.

Changes in the Company's ownership percentage of investees under the equity

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method are accounted for as adjustments to long-term investments and a corresponding adjustment to the capital surplus account.

Unrealized profits or losses arising from transactions with equity investees or between equity investees are offset against investment income or loss from long-term investments, based on percentage of ownership.

When an impairment loss is determined to have occurred, the long-term investment recoverable amount is less than the carrying amount, and such loss in value is recorded as a nonoperating loss.

Other investments over which the Company does not have significant influence are accounted for by the cost method.

Properties

Properties, except for leased equipment, are stated at cost. Equipment held under capital leases are recorded as an asset and an obligation at an amount equal to the lower of: (i) the present value at the beginning of the lease term of the minimum lease payments during the lease term (including the payment called for under any bargain purchase option); or (ii) fair value of the leased equipment at the inception of the lease. Machinery in transit, construction in progress and prepayments under construction are stated at cost. These include the cost of machinery, construction costs, down payments and other direct costs plus interest charges attributable to the borrowings used to finance the acquisitions of these assets. Major renewals and improvements are capitalized, while maintenance and repairs are expensed as incurred.

Depreciation is computed using the straight-line method over estimated service lives which range as

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follows: long-term land leasehold rights, 53 to 60 years (lease period); buildings and improvements, 3 to 55 years; machinery and equipment, 3 to 8 years; furniture and fixtures, 2 to 15 years; transportation equipment, 3 to 8 years; and leased assets and leasehold improvements, 3 to 5 years. In the event that an asset which has been depreciated to its residual value is deemed to have a further useful life, the residual value is depreciated over its reestimated service life.

The Company reviews properties for impairment and determines whether an event or change in facts and circumstances indicated that their carrying amount may not be recoverable. Recoverable amount is measured as the higher of net selling price and value in use. Upon recording of the impairment loss, the adjusted carrying amount of the assets becomes its new cost basis, which is depreciated or amortized over the remaining useful life of the assets. Impairment losses on properties are recorded as a non-operating expense.

When properties are retired or disposed of, their costs and accumulated depreciation are removed from the accounts and any gain or loss is credited or charged to income.

Deferred Charges

Deferred charges are amortized as follows: tools, 2 years; license fees, 2 years; telecommunications, electrical, computer network systems, 5 years;

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bond issuance costs, 4 years; and others, 2 to 5 years.

Goodwill

Goodwill, as shown in the balance sheet, represents an amount arising from acquisitions or investments in the consolidated subsidiaries and is amortized over 10 years.

If the carrying amount of goodwill is determined to exceed its recoverable amount, an impairment loss is recognized at an amount equal to that excess. Reversal of a previously recognized goodwill impairment loss is prohibited.

Pension Cost

Pension cost is recorded based on actuarial calculations (Note 17). Provisions for pension costs are accrued based on actuarially determined amounts which include service costs, interest, amortization of unrecognized net obligation and expected return on pension assets.

An additional accrued pension cost must be recognized if the accumulated benefit obligation exceeds the fair value of plan assets. The debit is either to an asset-deferred pension cost or to a contra account of shareholders' equity entitled unrecognized pension cost. If the debit is less than unamortized balances of transition obligation, it is reported as an intangible asset. If the debit is greater than unamortized balances of transition obligation, the excess debit is reported as a contra account to shareholders' equity.

Convertible Bonds

Conversion of convertible bonds into common shares is accounted for by the book value method. Under this method, unamortized bond issuance costs and accrued interest which is no longer payable, together with the carrying amount of converted bonds are written off, and the common shares issued are recorded at their par value, and any excess is recorded as capital surplus.

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Stock Option Compensation

All stock-based compensation for awards granted or modified after January 1, 2004 should be accounted for in conformity with the related Interpretations of the Accounting Research and Development Foundation (ARDF) in the ROC. The compensation cost is measured based on the intrinsic value method and accordingly, compensation cost for stock options is measured as the excess, if any, of the quoted market price of the Company's stock at the date of the grant over the amount an employee must pay to acquire the stock. The intrinsic value of the shares is recognized as expense over the requisite service or vesting period.

Treasury Stock

The Company's shares held by its subsidiaries are accounted for as treasury stock and, accordingly, the cost of such shares are reclassified from long-term investments to treasury stock on consolidation.

Shipping and Handling Costs

Shipping and handling costs for goods sold are recorded as selling expense.

Revenue Recognition

Revenues from semiconductor packaging services that the Company provides are recognized upon shipment. Revenues from semiconductor testing services that the Company provides are recognized upon completion of the services. The Company does not take ownership of: (i) bare semiconductor wafers received from customers that the Company packages into finished semiconductors and (ii) packaged semiconductors received from customers that the Company tests as to whether they meet certain performance specifications. The title and risk of loss remains with the customer for those bare semiconductors and/or packaged semiconductors. Accordingly, the cost of customer-supplied semiconductor materials is not included in the accompanying consolidated financial statements. Other criteria that the Company uses to determine when to recognize revenue are: (i) existence of persuasive evidence of the services provided, (ii) the selling price is fixed or determinable and (iii) collectibility is reasonably assured. The Company does not provide warranties to its customers except in the case where a defect in the packaging services provided or deficiencies in testing services provided has occurred. An appropriate sales allowance, based on historical experience, is recognized in the period of the sale.

Income Tax

Tax effects of deductible temporary differences, unused tax credits and operating loss carryforwards are recognized as deferred income tax assets, and taxable temporary differences are recognized as deferred income tax liabilities. A valuation allowance is provided for deferred income tax assets based on their estimated realizability.

Tax credits of the Company from investments in machinery and equipment, research and development and employees' training costs are recognized in the year in which they are acquired and expended.

Adjustments of prior years' income tax are added to or deducted from the current year's tax provision.

Income taxes on undistributed earnings (10%) as determined by tax authority generated in 1998 and onwards for consolidated entities in the ROC are recorded as expense in the following year when the shareholders have resolved that the earnings shall be retained.

Foreign Currency Transactions and Translation of Foreign-currency Financial Statements

The Company and its subsidiaries maintain their accounts in the currency of their respective countries of incorporation (local currencies) and functional currencies.

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Foreign currency transactions, other than foreign currency forward exchange contracts, are recorded in the local currencies at the rates of exchange in effect when the transactions occur.

Gains or losses resulting from the application of different foreign exchange rates when foreign-currency assets and liabilities are settled, are credited or charged to income in the year of settlement. Year-end balances of foreign currency assets and liabilities are restated based on

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prevailing exchange rates and the resulting differences are credited or charged to income.

The financial statements of the foreign subsidiaries are translated into N.T. dollars at the following rates: assets and liabilities, current rate; and income and expenses, average exchange rate during the year. The net resulting translation adjustment is reported as a separate component of shareholders' equity.

Derivative Financial Instruments

a. Forward exchange contracts

Forward exchange contracts, which the company enters into as an economic hedge of foreign-currency denominated assets or liabilities, are initially recorded in New Taiwan dollars at the spot rates on the date of each forward contract. The differences between spot rates and forward rates are amortized over the period of each forward contract and recognized as gains or losses. On the balance sheet date, balances of forward exchange contracts are restated at the prevailing exchange rates and the resulting adjustments are credited or charged to income. Any resulting gain or loss upon settlement is credited or charged to income in the year of settlement.

For outstanding forward contracts as of the balance sheet date, the related receivables and payables are netted out, and the resulting balance is presented as a current asset or liability.

b. Option contracts

The premiums received, if any, from sale of option contracts entered into for hedging purposes are recorded as income. The premiums paid, if any, for purchase of option contracts entered into for hedging purposes are recorded as expenses. Gains or losses upon settlement are credited or charged to income. At period-end, outstanding written option contracts and cross-currency swap contracts are marked to market, and the resulting gains or losses are recorded to income and the offset is recognized as an asset or liability, as appropriate, with the exception of options entered into as a cash flow hedge, which the Company has deemed to be effective. Any gain or loss calculated on cash flow hedges as of the balance sheet date are initially recorded as a separate component of shareholders' equity and subsequently reclassified into earnings in the same period or periods during which the hedged forecasted transaction affects earnings.

c. Interest rate swap contracts

Interest rate swap contracts entered into to limit the impact of interest rate fluctuations on certain long-term debt are not recorded as assets or liabilities on the contract date. The difference between fixed and variable rates to be paid or received on swaps is accrued as an interest rate change based on the contracts and is included in current interest income or expense.

d. Cross-currency swap contracts

The Company enters into cross-currency swap contracts in order to manage their exposure to exchange rate fluctuations on foreign-currency denominated assets and liabilities. The principal amount is recorded at spot rates on the contract date. The difference in interest between the contract starting date rate and the rate on

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each settlement date or the balance sheet date is recorded as an adjustment to the interest income or expense associated with the hedged items. The differences in the New Taiwan dollar amounts translated using the spot rates on the contract starting date and the amounts translated using the contracted forward rate are amortized over the terms of the contracts using the straight-line

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method.

At the end of each year, the receivables or payables arising from outstanding cross-currency swap contracts are restated at prevailing spot rates and the difference is charged to income. In addition, the receivables and payables under the contracts are presented on a net basis as either an asset or a liability.

Recent Accounting Pronouncements

In December 2003, the ROC ARDF issued SFAS No. 34 "Accounting for Financial Instruments", which will be required to be applied by the Company from January 1, 2006. SFAS No. 34 will require the Company to classify all financial instruments, excluding limited financial instruments specified by SFAS No. 34, as either trading, available-for-sale or held-to-maturity. Debt securities that the Company has the positive intent and ability to hold to maturity are classified as held-to-maturity securities and reported at amortized cost. Debt and equity securities that are bought and traded for short-term profit are classified as trading securities and reported at fair value, with unrealized gains and losses charged to earnings in the current period. Debt and equity securities not classified as either held-to-maturity or trading are classified as available-for-sale securities and reported at fair value, with unrealized gains and losses excluded from earnings and reported as a separate component of shareholders' equity. Additionally, SFAS No. 34 will require the Company to recognize all derivatives on the balance sheet at fair value. Derivatives that are not hedges must be adjusted to fair value through income. If the derivative is designated as a hedge, depending on the nature of the hedge, changes in the fair value of the derivatives will either be offset against the change in fair value of the hedged assets, liabilities or firm commitments through earnings, or recognized in a separate component of shareholders' equity until the hedged item is recognized in earnings. The change in a derivative's fair value attributable to the ineffective portion of a hedge, if any, will be immediately recognized in earnings.

In December 2004, ARDF revised SFAS No. 7 "Consolidated Financial Statements", which will be adopted by the Company on January 1, 2005. Revised SFAS No. 7 will require the Company to consolidate all investees under the control of the Company. Control is not only presumed to exist when a company holds more than half of the voting interests or rights in an investee but may be deemed to exist if certain criteria established by revised SFAS No.7 are met.

U.S. Dollar Amounts

The Company prepares its consolidated financial statements in New Taiwan dollars. A translation of the 2004 financial statements into U.S. dollars is included solely for the convenience of the reader, and has been based on the U.S. Federal Reserve Bank of New York noon buying rate of NT\$31.74 to US\$1.00 in effect at December 31, 2004. The convenience translations should

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not be construed as representations that the New Taiwan dollar amounts have been, could have been, or could in the future be, converted into U.S. dollars at this or any other rate of exchange.

3. CHANGE IN ACCOUNTING PRINCIPLE

The Company introduced enterprise resource planning (ERP) as part of its strategy to enhance operations to enhance its competitiveness as well as strengthen internal management and integrate resources. Thus, at the start of 2004, the Company decided to change its method for pricing raw materials and supplies from the weighted-average method to the moving-average method. The cumulative effect of this accounting change resulted in a decrease of the 2004 net income by NT\$26,844 thousand and in earnings per share by \$0.01. The pro forma effects of this change in accounting principle on the 2002 and 2003 net income were immaterial.

On December 31, 2004, the Company adopted ROC SFAS No. 35. The adoption of ROC SFAS No. 35 resulted in the decrease in the balance of long-term investment and goodwill by NT\$512,000 thousand (US\$16,131 thousand) and NT\$1,950,097 thousand (US\$61,440 thousand), respectively.

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4. CASH AND CASH EQUIVALENTS

| | December 31 | | |
|---------------------------------------|-------------|-----------|-------|
| | 2003 | 2004 | |
| | NT\$ | NT\$ | US\$ |
| Cash on hand | 3,255 | 7,234 | 2 |
| Checking accounts and current deposit | 5,467,730 | 5,295,088 | 166,8 |
| Time deposits | 2,813,006 | 471,461 | 14,8 |
| Cash equivalents | 92,727 | 201,001 | 6,3 |
| Cash in transit | 185,707 | 319 | |
| | ----- | ----- | ----- |
| | 8,562,425 | 5,975,103 | 188,2 |
| | ===== | ===== | ===== |

As of December 31, 2004, foreign deposits consisted of the following:

| | NT\$ |
|--|---------|
| USA (U.S. dollars \$12,249 thousand) | 390,9 |
| Hong Kong (U.S. dollars \$53,431 thousand) | 1,705,3 |
| Malaysia (Malaysia Ringgits \$59,763 thousand) | 501,9 |
| Singapore (Singapore dollars \$1,348 thousand and U.S. dollars \$5,204 thousand) | 192,4 |
| Japan (Japanese yen \$457,261 thousand) | 140,9 |
| China-Shanghai (U.S. dollars \$2,963 thousand and China Yuan Renminbi \$13,014 thousand) | 144,7 |
| Korea (U.S. dollars \$96 thousand and Korea Won \$12,263 thousand) | 3,4 |
| | ----- |
| | 3,079,9 |

5. SHORT-TERM INVESTMENTS

| | December 31 | | |
|--------------------|-------------|-----------|-------|
| | 2003 | 2004 | |
| | NT\$ | NT\$ | US\$ |
| Mutual funds | 3,012,264 | 3,196,210 | 100,7 |
| Stocks | 6,025 | 5,660 | 1 |
| Convertible bonds | 391 | - | |
| | 3,018,680 | 3,201,870 | 100,8 |
| Allowance for loss | (901) | (7,687) | (2 |
| | 3,017,779 | 3,194,183 | 100,6 |

6. ACCOUNTS RECEIVABLE

| | December 31 | | |
|---------------------------------|-------------|------------|-------|
| | 2003 | 2004 | |
| | NT\$ | NT\$ | US\$ |
| Accounts receivable | 13,180,553 | 14,086,199 | 443,7 |
| Allowance for doubtful accounts | (337,311) | (430,822) | (13,5 |
| Allowance for sales allowances | (45,107) | (68,742) | (2,1 |
| | 12,798,135 | 13,586,635 | 428,0 |

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The change in allowance for doubtful accounts and sales allowances are as follows:

| | Doubtful Accounts | Sales Allowances |
|----------------------------|----------------------|---------------------|
| | NT\$ | NT\$ |
| Balance, beginning of 2002 | 286,476 | 53,626 |
| Additions | 67,567 | 18,256 |
| Deductions | (53,330) | (28,833) |
| Balance, end of 2002 | 300,713 | 43,049 |
| Additions | 95,853 | 111,165 |
| Deductions | (59,255) | (109,107) |

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| | | |
|----------------------------|---------|----------|
| Balance, end of 2003 | 337,311 | 45,107 |
| Additions | 98,597 | 52,761 |
| Deductions | (5,086) | (29,126) |
| Balance, end of 2004 | 430,822 | 68,742 |
| | US\$ | US\$ |
| Balance, beginning of 2004 | 10,627 | 1,421 |
| Additions | 3,106 | 1,663 |
| Deductions | (160) | (918) |
| Balance, end of 2004 | 13,573 | 2,166 |

In 2004, the Company sold to a bank account receivables amounting to NT\$2,082,278 thousand (US\$65,604 thousand). Under the terms of the contract, the Company may sell up to an aggregate amount of outstanding receivables of US\$80,000 thousand and must pay certain financing costs and remains responsible for handling any commercial disputes that may arise in relation to the sold receivables.

7. INVENTORIES

| | December 31 | | |
|----------------------------------|-------------|-----------|-------|
| | 2003 | 2004 | |
| | NT\$ | NT\$ | US\$ |
| Raw materials | 3,365,079 | 6,478,395 | 204,1 |
| General supplies and spare parts | 573,240 | 841,635 | 26,5 |
| Work in process | 637,692 | 1,357,634 | 42,7 |
| Finished goods | 399,699 | 602,417 | 18,9 |
| Supplies in transit | 29,620 | 362,579 | 11,4 |
| | 5,005,330 | 9,642,660 | 303,8 |
| Allowance for obsolescence | (313,559) | (205,403) | (6,4 |
| | 4,691,771 | 9,437,257 | 297,3 |

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The movement of allowance for obsolescence is as follows:

| | NT\$ |
|----------------------------|----------|
| Balance, beginning of 2002 | 220,548 |
| Additions | 34,379 |
| Deductions | (42,170) |
| Balance, end of 2002 | 212,757 |
| Additions | 240,844 |

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| | |
|----------------------|-----------|
| Deductions | (140,042) |
| | ----- |
| Balance, end of 2003 | 313,559 |
| Additions | 75,842 |
| Deductions | (183,998) |
| | ----- |
| Balance, end of 2004 | 205,403 |
| | ===== |

US\$

| | |
|----------------------------|---------|
| Balance, beginning of 2004 | 9,879 |
| Additions | 2,389 |
| Deductions | (5,797) |
| | ----- |
| Balance, end of 2004 | 6,471 |
| | ===== |

8. LONG-TERM INVESTMENTS AND DEFERRED CREDIT

| | | | December |
|---|-----------|----------------------------------|----------|
| | 2003 | | |
| | NT\$ | % of Direct Owner- ship | NT\$ |
| Equity method | | | |
| Common stock | | | |
| Universal Scientific Industrial Co., Ltd. (Note 10) | 3,342,455 | 23.6 | 2,741, |
| Hung Ching Development & Construction Co. | 1,012,399 | 26.4 | 708, |
| Hung Ching Kwan Co. | 406,131 | 27.3 | 345, |
| Inprocomm, Inc. | 7,678 | 32.1 | |
| Universal Access Technology Inc. | - | 25.0 | |
| Preferred stock | | | |
| Intergrated Programmable Communication, Inc. | 52,599 | 30.0 | 38, |
| | ----- | | ----- |
| | 4,821,262 | | 3,834, |
| Unrealized gain on sale of land | (300,149) | | (300, |
| | ----- | | ----- |
| | 4,521,113 | | 3,534, |
| | ----- | | ----- |
| Cost method | | | |
| Taiwan Fixed Network Co., Ltd. | 1,500,000 | 1.6 | 1,050, |
| H&HH Venture Investment Corporation | - | - | 50, |
| InveStar Burgeon Venture Capital, Inc. | 83,228 | 13.0 | 36, |
| Global Strategic Investment, Inc. | 67,940 | 2.5 | 63, |
| Digital Communications International Inc. | 50,167 | 15.0 | 47, |
| UC Fund II | 33,970 | - | 31, |
| Crimson@Velocity Fund, L.P. | 21,237 | - | 43, |
| | ----- | | ----- |
| | 1,756,542 | | 1,323, |
| | ----- | | ----- |

| | 2003 | December |
|---|-----------|--|
| | NT\$ | % of Direct Owner- ship NT\$ |
| Prepaid for long-term investments - ASE-Compeq Technologies, Inc. | 12,000 | |
| Other long-term investment - Asset Backed Security | 50,000 | 50, |
| Other financial assets | 3,140 | |
| | 6,342,795 | 4,907, |
| Deferred credits of long-term investments - included in other Liabilities Inprocomm, Inc. | - | 30, |

From February 1999 to April 2000, the Company acquired shares of Universal Scientific Industrial Co., Ltd. ("USI") from the open market on the Taiwan Stock Exchange. As of December 31, 2004, the Company had an accumulated total investment cost of NT\$3,838,368 thousand (US\$120,931 thousand). USI is engaged in the manufacturing, processing and sale of computer peripherals, integrated circuits, electrical parts, personal computers and related accessories. USI declared stock and cash dividends in 2004 for NT\$0.20 and NT\$0.50 per share, respectively. As of December 31, 2004, the market value of the shares held in USI totaled NT\$1,999,250 thousand (US\$62,988 thousand). The difference between the investment balance and the Company's share in the net equity of USI is attributable to goodwill.

During the year ended December 31, 2004, the Company recorded an impairment loss of NT\$512,000 thousand (US\$16,131 thousand) on its investment in USI, based on the difference between the calculated recoverable amount and the book value of the investment.

From March 1995 to February 1999, the Company acquired shares of Hung Ching Development & Construction Co. ("HCDC") from the stock market. As of December 31, 2004, the Company had an accumulated total investment cost of NT\$2,845,913 thousand (US\$89,663 thousand). HCDC is engaged in the development and management of commercial, residential and industrial real estate properties in Taiwan. As of December 31, 2004, the market value of the shares held in HCDC totaled NT\$698,537 thousand (US\$22,008 thousand).

The Company acquired its 27.3% equity interest in Hung Ching Kwan Co. ("HCKC") in 1992 by transferring to HCKC a parcel of land as an investment in HCKC at an agreed value of NT\$390,470 thousand. The resulting gain of NT\$300,149 thousand (US\$9,456 thousand), which represents the excess of such value over the cost of the land plus land value increment tax, has

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been deferred until the disposal of this investment. As of December 31, 2004, the Company had a 44.1% effective interest in HCKC, which consisted of 27.3% interest directly owned by the Company, and 16.8% interest indirectly owned through HCDC (based on HCDC's 63.5% interest in HCKC).

The Company invested in Inprocomm, Inc. ("Inprocomm") in May 2003 with capital of NT\$52,000 thousand and directly acquired its 32.1% equity interest. In addition, USI and Global Strategic Investment, Inc. have 17.3% and 8.6% equity interests in Inprocomm, respectively. Inprocomm is engaged in the design of semiconductors for wireless communication applications. As of December 31, 2004, the accumulated loss of Inprocomm was NT\$255,917 thousand (US\$8,063 thousand).

The Company invested in Universal Access Technology Inc. ("UAT") in December 2000 and directly acquired its 25.0% equity interest. In addition, HCDC and USI have 10.0% and 25.0% equity interest in UAT, respectively. Accordingly, as of December 31, 2003, the Company had a 33.3% effective interest in UAT. UAT received approval to dissolve as of July 8, 2003 and was liquidated as of December 31, 2003.

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In December 2000, the Company invested in convertible preferred stock issued by Intergrated Programmable Communication, Inc. ("IPC"). As of December 31, 2004, the Company and its subsidiary, Grand Innovation Co., Ltd., have made total investments of US\$5.2 million and own a 26.5% stake in IPC. In addition, USI holds a 16% equity interest in IPC. IPC is engaged in the design of semiconductors for wireless communication applications.

The Company recorded net investment losses of NT\$410,348 thousand in 2002, NT\$240,656 thousand in 2003 and NT\$394,995 thousand (US\$12,445 thousand) in 2004, respectively, from its investments in the aforementioned equity-method investees.

In 2003 and 2004, the cumulative translation adjustments for investment in foreign companies decreased by NT\$287,422 thousand and NT\$919,220 thousand (US\$28,961 thousand), respectively.

9. PROPERTIES

Accumulated depreciation consists of:

| | December 31 | | |
|--|-------------|------------|---------|
| | 2003 | 2004 | |
| | NT\$ | NT\$ | US\$ |
| Buildings and improvements | 3,734,503 | 5,228,222 | 164,7 |
| Machinery and equipment | 42,959,968 | 51,913,680 | 1,635,5 |
| Transportation equipment | 66,463 | 71,911 | 2,2 |
| Furniture and fixtures | 1,044,699 | 1,503,129 | 47,3 |
| Leased assets and leasehold improvements | 466,688 | 399,432 | 12,5 |
| Long-term land leasehold rights | 9,614 | 10,038 | 3 |

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48,281,935 59,126,412 1,862,8
 ===== ===== =====

Certain machinery and equipment related to the testing business of ASE Test and ISE Labs were impaired during 2002. As a result, an impairment loss of NT\$1,225,555 thousand was recognized and included in non-operating expenses in 2002.

Interest capitalized and included as cost of properties amounted to NT\$145,985 thousand, NT\$149,051 thousand and NT\$298,062 thousand (US\$9,391 thousand) for the years ended December 31, 2002, 2003 and 2004, respectively.

Machinery in transit pertains to the purchase of packaging, testing and substrate equipment that has been received but is not ready for use. Prepayments are payments made to purchase machinery with non-cancellable purchase orders.

Machinery in transit and prepayments consist of the following:

| | December 31 | | |
|-----------|-------------|------------|-------|
| | 2003 | 2004 | |
| | NT\$ | NT\$ | US\$ |
| Bonders | 457,944 | 1,148,272 | 36,1 |
| Testers | 2,726,211 | 2,015,784 | 63,5 |
| Bumping | 833,639 | 2,206,403 | 69,5 |
| Flip Chip | 503,225 | 1,028,663 | 32,4 |
| Substrate | 19,640 | 3,213,956 | 101,2 |
| Others | 1,652,954 | 4,949,156 | 155,9 |
| | 6,193,613 | 14,562,234 | 458,7 |
| | 6,193,613 | 14,562,234 | 458,7 |

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10. GOODWILL

These represent goodwill arising from the purchases of:

| | December 31 | | |
|---------------------|-------------|-----------|------|
| | 2003 | 2004 | |
| | NT\$ | NT\$ | US\$ |
| ASE Chung Li shares | - | 1,068,681 | 33,6 |
| ASE Material shares | - | 473,022 | 14,9 |
| ASE Test shares | 2,212,135 | 725,015 | 22,8 |
| ISE Labs shares | 2,113,500 | 817,443 | 25,7 |
| ASE Korea shares | 270,599 | 209,249 | 6,5 |

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| | | | |
|-------------------|-----------|-----------|-------|
| ASE Japan shares | - | 25,732 | 8 |
| ASE (U.S.) shares | - | 17,234 | 5 |
| | ----- | ----- | ----- |
| | 4,596,234 | 3,336,376 | 105,1 |
| | ===== | ===== | ===== |

Amortization of goodwill is reflected in general and administrative expenses in the consolidated statement of income and was NT\$815,573 thousand, NT\$819,253 thousand and NT\$877,582 thousand (US\$27,649 thousand) for the years ended December 31, 2002, 2003 and 2004, respectively. The Company adopted ROC SFAS No. 35 "Impairment of Assets" on December 31, 2004, and recognized an impairment loss on goodwill of NT\$1,950,097 thousand (US\$61,440 thousand), which was determined based on the amount by which the carrying amount of the cash-generating unit exceeded its recoverable amount. In testing a cash-generating unit for impairment, the Company identified the goodwill related to ASE Test and ISE Labs. The recoverable amount was determined by the Company based on the "value-in-use" of ASE Test and ISE Labs, which was determined based on estimated cash flows, discounted at rate of 9.58%.

11. SHORT-TERM BORROWINGS

| | December 31 | | |
|-------------------|-------------------|-----------|-------------------|
| | 2003 | | |
| | Interest Rate (%) | NT\$ | Interest Rate (%) |
| Letters of credit | 0.86-3.60 | 2,967,178 | 0.60-3.41 |
| Revolving | 1.32-6.00 | 2,081,052 | 1.50-7.00 |
| | | ----- | ----- |
| | | 5,048,230 | |
| | | ===== | ===== |

As of December 31, 2004, unused credit lines for short-term borrowings, including commercial paper and bank acceptances, totaled approximately NT\$12,877,000 thousand (US\$405,703 thousand).

12. COMMERCIAL PAPER AND BANK ACCEPTANCES PAYABLE

| | December 31 | | |
|---|-------------|---------|-------|
| | 2003 | 2004 | |
| | NT\$ | NT\$ | US\$ |
| Commercial paper and bank acceptances payable - interest at 1.10%-2.35% in 2003 and 1.24%-1.52% in 2004 | 1,077,000 | 910,000 | 28,6 |
| Less: Unamortized discount | 1,035 | 1,184 | |
| | ----- | ----- | ----- |
| | 1,075,965 | 908,816 | 28,6 |
| | ===== | ===== | ===== |

As of December 31, 2004, the guarantee/acceptance agencies were Fubon Bills Finance Co., China Bills Finance Corporation, E.Sun Bills Finance Corp., China Trust Bills Finance Corporation, Taiwan Finance Corporation, International Bills Finance Corporation and Dah Chung Bills Finance Corp. The commercial paper and bank acceptances payable are due from January 2005 to March 2005.

13. LONG-TERM BONDS PAYABLE

| | December 31 | | |
|---------------------------|-------------|-----------|-------|
| | 2003 | 2004 | |
| | NT\$ | NT\$ | US\$ |
| Foreign convertible bonds | 6,794,000 | 6,383,400 | 201,1 |
| Accrued interest | 67,232 | 307,182 | 9,6 |
| | 6,861,232 | 6,690,582 | 210,7 |
| Domestic secured bonds | - | 2,750,000 | 86,6 |
| | 6,861,232 | 9,440,582 | 297,4 |
| | ===== | ===== | ===== |

Information on the long-term bonds payable is as follows:

a. Foreign convertible bonds

In September 2003, the Company issued US\$200,000 thousand of unsecured zero coupon convertible bonds due September 2008, consisting of 200,000 units with face values of US\$1,000 each. The bonds have an implied interest rate of 3.75%.

From the date 31 days after issuance through the date 10 days before the due date, the bondholders have the right to convert the bonds into the Company's common shares or ADS at the specified conversion price. The conversion rate is based on the current market price at the time of sale.

The Company may redeem the bonds at the redemption price if:

- 1) On or at any time after September 2007, the closing price of the common shares for a period of 20 consecutive trading days is higher than 130% of the conversion price (NT\$35.53 per share at December 31, 2004) in effect on each such trading day, and
- 2) at least 90% of the bonds have already been converted, redeemed, or purchased and cancelled.
- 3) If the applicable tax law is unfavorably changed, the Company may redeem at any time all, but not some, of the bonds.

In November 1997, the Company issued US\$200.0 million of zero coupon

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convertible bonds due November 2002. Except for US\$1.0 million aggregate principal amount of convertible bonds that were converted into 355,086 common shares during 2001, the remaining US\$199.0 million aggregate principal amount of the outstanding bonds were repurchased from the open market and cancelled in 2001 and 2002. During 2002, the Company repurchased US\$68.0 million in aggregate principal amount of the outstanding bonds from the open market with payments of NT\$3,242,110 thousand, which resulted in an extraordinary loss of NT\$34,613 thousand (net of income tax benefit of NT\$11,538 thousand).

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b. Domestic secured bonds

In January 2004, the Company issued NT\$2.75 billion in domestic secured bonds, due in January 2009. The bonds consisted of 275 units with par value of NT\$10 million and repayable in January 2008 and 2009 in two equal payments. The interest, payable semiannually, was 3.6% in 2004. The bank has guaranteed the bonds and has the right to redeem the bonds early in the event the Company violates certain provisions of the bond agreement.

c. Foreign convertible notes - issued by ASE Test Finance

In June 1999, ASE Test, in connection with the acquisitions of ISE Labs and Motorola's Semiconductor Products Sector Business in Taiwan and Korea, issued US\$160.0 million of 1% guaranteed convertible bonds due July 1, 2004 through its subsidiary, ASE Test Finance. The Company subscribed US\$50.0 million of the convertible bonds and, accordingly, the net balance of US\$110,111 thousand is recorded in the accompanying balance sheet as of December 31, 2002. On August 19, 2003, ASE Test Finance redeemed and cancelled the total outstanding convertible notes with payments of NT\$4,908,389 thousand, which resulted in an extraordinary loss of NT\$75,668 thousand.

Under ROC GAAP, the loss of NT\$75,668 thousand was as a result of the early redemption and cancellation of the convertible notes and was recorded as an extraordinary loss. Under U.S. GAAP, the loss would not qualify as extraordinary and would have been included in other expenses.

14. LONG-TERM DEBTS

Long-term debts consist of the following:

| | December 31 | | |
|--|-------------|------------|-------|
| | 2003 | 2004 | |
| | NT\$ | NT\$ | US\$ |
| Mortgage bank loans for purchase of building and machinery | 6,266,559 | 3,877,982 | 122,1 |
| Acceptances payable | 874,798 | 3,882,903 | 122,3 |
| Revolving bank loans | 13,440,020 | 20,496,874 | 645,7 |
| Bank loans secured by assets | 2,025,672 | 3,645,659 | 114,8 |
| Letters of credit loans for purchase of | | | |

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| | | | |
|--|-------------|-------------|---------|
| materials and machinery | 1,662,152 | 2,212,251 | 69,6 |
| Loans for redemption of convertible bond | 5,095,500 | 4,787,550 | 150,8 |
| | ----- | ----- | ----- |
| | 29,364,701 | 38,903,219 | 1,225,6 |
| Current portion | (5,491,389) | (2,011,673) | (63,3 |
| | ----- | ----- | ----- |
| | 23,873,312 | 36,891,546 | 1,162,3 |
| | ===== | ===== | ===== |

a. Mortgage bank loans for purchase of building and machinery

Mortgage bank loans obtained by the Company and ASE Test, Inc. are repayable in quarterly or semi-annual installments, as well as in a lump sum payment at maturity. The effective interest rates on the loans ranged from 1.82% to 7.92% in 2003 and 2.57% to 7.92% in 2004, respectively.

In November 2000 a subsidiary, ASE Chung Li, obtained a syndicated bank loan of NT\$4.0 billion in order to finance the expansion of factory buildings. Upon completing its merger with ASE Chung Li, the Company assumed all of the rights and obligations of ASE Chung Li. The agreements require, among other things, the following:

- 1) Without the prior written consent from the majority of the syndicate banks, the Company may not:

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- a) guarantee, or assume direct or indirect liabilities of other parties, in excess of 50% of the Company's net worth;
- b) merge or combine with any other entity, unless the Company is the surviving entity, and the merger or combination will unfavorably affect the Company's financial condition;
- c) sell, lease or transfer operating assets in excess of 20% of the Company's total assets, unless the transfer of an account receivable to a financial institution is for the increase in working capital;
- d) pledge its assets in excess of NT\$100,000 thousand outside the normal course of business;
- e) provide financing to any other entity;
- f) make other investments in excess of NT\$200,000 thousand;
- g) invest in any other entity which may be presumed by the syndicated bank to unfavorably impact the Company's financial condition;
- h) stop or revise the plan on expanding factory buildings in Chung Li if the stoppage or revision will be unfavorable to the Company;
- i) dispose of the assets pledged under this agreement; and
- j) make changes in the Company's operating items and plans

that will be unfavorable to the Company.

- 2) The Company's tangible net worth, as defined in a loan agreement, should not be less than NT\$38.0 billion.
- 3) The Company should maintain certain financial ratios.

Mortgage bank loans for purchase of machinery amount of NT\$1,074,184 thousand (US\$33,843 thousand) are due within one year and the Company has received permission from the relevant banks to refinance these loans or obtain a new long-term credit line to repay these loans.

b. Acceptance payables

| | December 31 | | |
|-----------------------|---------------------------|-----------------------------|-------------------------|
| | 2003 | 2004 | |
| | NT\$ | NT\$ | US\$ |
| Acceptance payables | 875,000 | 3,900,000 | 122,8 |
| Unamortized discounts | (202) | (17,097) | (5 |
| | ----- 874,798 ===== | ----- 3,882,903 ===== | ----- 122,3 ===== |
| Interest rate | 1.03%-1.10% | 1.238%-2.75% | |

The acceptance payable with a credit line of NT\$820 million stipulates, among other things, the following:

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- 1) Unless there is a written consent from the majority of the syndicate banks, the Company cannot pledge its assets, assume liabilities or dispose of assets in excess of 20% of its total assets, unless the transaction involves a transfer of assets between affiliates;
- 2) Unless there is a written consent from the majority of the syndicate banks, the Company cannot (a) merge with any other entity or (b) split up according to the Company law, and (c) make investments of more than NT\$2.5 billion starting from the day after the agreement date. (an exception was the Company's joint venture agreement with Compeq to establish ASE-Compeq Technologies, Inc.; total investment under the joint venture agreement were not more than NT\$5.0 billion); (d) acquire major assets of another entity (except if the investment is in a subsidiary that existed before the bank acceptance agreement; the Company is the survivor entity of any merger, or if the merger with subsidiaries will not harm the Company's operations, financial condition or ability to meet the terms of the bank acceptance agreement);
- 3) The Company's tangible net worth should not be less than NT\$38.0 billion; and

4) The Company should maintain certain financial ratios.

Acceptances payable of NT\$1,080,000 thousand (US\$34,026 thousand) is due for repayment by September 2005. The Company has obtained a new long-term credit line to make the repayment.

c. Revolving bank loans

| | December | |
|--|------------|-------|
| | ----- | |
| | 2003 | |
| | ----- | ----- |
| | NT\$ | NT\$ |
| Syndicated bank loan - effective interest rate was 2.15%-2.53% in 2003 and 2.14%-2.30% in 2004 | | |
| ASE | 8,050,000 | 12 |
| Revolving credit lines due February 2005 to June 2008 -effective interest rate was 1.45%-5.50% in 2003 and 1.60%-3.35% in 2004 | | |
| ASE | 3,513,760 | 3 |
| Others | 1,876,260 | 4 |
| | ----- | ----- |
| | 13,440,020 | 20 |
| | ===== | ===== |

The syndicated bank loan of NT\$7.0 billion is repayable in three semi-annual installments from December 2004 to December 2005. The Company made an early payment in the amount of NT\$3.35 billion in October 2003, repaid NT\$1.252 billion in December 2004 and as a result there was an outstanding balance of NT\$2.398 billion as of December 31, 2004, which is repayable in accordance with the original payment schedule.

The second syndicated bank loan of NT\$7.0 billion outstanding as of December 31, 2004 (including NT\$5.0 billion revolving bank loan and NT\$2.0 billion acceptances payable) was repayable in seven semi-annual installments from September 2005 to September 2008. A third syndicated bank loan totaled NT\$5.0 billion as of December 31, 2004 and is repayable in five semi-annual installments from December 2007 to December 2009.

The loan agreement's covenants specify the following:

- 1) Without the prior written consent from the majority of the banks, the Company should not:
 - a) pledge its assets, assume liabilities or dispose of assets in excess of 20% of total assets, unless the transaction involves a transfer of assets between affiliates; and
 - b) merge with any other entity or make investments in excess of NT\$2.5 billion or acquire material assets from another

entity.

- 2) The Company's tangible net worth, as defined in a loan agreement, should not be less than NT\$45.0 billion; and
- 3) The Company should maintain certain financial ratios.

As of December 31, 2004, the revolving bank loan of NT\$4,158,077 thousand (US\$131,004 thousand) was due before the end of 2005. The Company has received permission from the banks concerned to refinance these loans or obtain a new long-term credit line to repay these loans.

d. Bank loans secured by assets

These include various bank loans obtained by ASE Korea which are secured by ASE Korea's land, buildings and improvements, and machinery and equipment, which totaled NT\$4,273,830 thousand (US\$134,651 thousand) as of December 31, 2004. The loans are repayable in annual installments which are due 2008 and bear interest from 3.15% to 3.87% in 2003 and 1.88% to 4.68% in 2004, respectively.

e. Letters of credit loans for purchase of materials and machinery

These represent various bank loans obtained by the Company with original terms of one year or less, due from January 2005 through June 2005 with interest rates ranging from 0.83% to 1.61% in 2003 and 2.13% to 5.02% in 2004. From October 2004 to January 2005, the Company obtained new credit lines to repay these letters of credit loans, which are due from January 2007 to July 2010.

f. Loans for redemption of convertible bonds

The loan obtained in 2003 by ASE Test Finance, specifically for the purpose of redeeming the convertible bonds issued in 1999 (Note 13), is repayable in semi-annual installments starting June 2005 to June 2008 and bears interest at 2.27% in 2003 and 3.63% in 2004. The Company and its subsidiaries ASE Test and ASE Test, Inc. provided guarantees for ASE Test Finance's payment obligations under the facility. Under the guarantees, ASE Test is required to maintain certain financial ratios and the tangible net worth of ASE Test shall not be less than US\$400 million at any time.

The abovementioned bank loan contracts have variable interest rates and are subject to adjustments by banks or changes in prime rate. In addition, several of the loan agreements have default provisions, whereby a default under one debt agreement may also trigger cross-defaults under other debt agreements.

As of December 31, 2004, unused long-term bank facilities approximated NT\$1,793,000 thousand (US\$56,112 thousand).

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As of December 31, 2004, the maturities of long-term bonds payable and long-term bank loans were as follows:

Amount

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| | NT\$ | US\$ |
|--------------------------------------|------------|-----------|
| Within the following year | 2,011,673 | 63,380 |
| During the second year | 16,629,629 | 523,933 |
| During the third year | 8,675,985 | 273,345 |
| During the fourth year | 16,245,278 | 511,824 |
| During the fifth year and thereafter | 4,781,236 | 150,637 |
| | ----- | ----- |
| | 48,343,801 | 1,523,119 |
| | ===== | ===== |

Long-term bonds payable and long-term bank loans by currencies are detailed as follows:

| | December 31 | |
|---------------------|-----------------|-----------------|
| | ----- | ----- |
| | 2003 | 2004 |
| New Taiwan dollars | NT\$ 18,052,221 | NT\$ 27,775,646 |
| U.S. dollars | US\$ 519,805 | US\$ 629,329 |
| Japanese yen | Yen 1,622,970 | Yen 800,000 |
| China Yuan Renminbi | RMB - | RMB 61,000 |

15. LONG-TERM PAYABLE FOR INVESTMENT

In July 1999, the Company and ASE Test purchased equity interests of 70.0% and 30.0%, respectively, in the Motorola's Semiconductor Products Sector Businesses in Taiwan and Korea held through ASE Chung Li and ASE Korea, respectively. Both ASE Chung Li and ASE Korea are engaged in the packaging and testing of semiconductors. The total purchase price was approximately US\$350.1 million. As of December 31, 2001, US\$246.8 million had been paid to Motorola and the remaining amount of US\$103.3 million and accrued interest were to be paid within the following three years. In addition, a portion of the purchase price, payable for investment US\$23,333 thousand and accrued interest US\$4,486 thousand, was not paid because payment was contingent upon achieving certain targets of revenue from the packaging and testing services provided to Motorola, which were not met. In June 2002, the Company and Motorola re-negotiated the agreement with respect to the payment terms and the contingent payments. As of December 2004, the contingent payments had been settled in full.

16. OBLIGATIONS UNDER CAPITAL LEASES

The Company and its subsidiaries, ASE Test, Inc., ASE Japan and ISE Labs lease equipment and buildings under certain non-cancellable capital lease agreements, which expire on various dates through December 2010. The net book value, as of December 31, 2003 and 2004, of the equipment acquired under such capital lease obligations amounted to NT\$559,615 thousand and NT\$706,147 thousand (US\$22,248 thousand), respectively. The effective interest rates on obligations under capital leases ranged from 0.7% to 11% in 2003 and 5.64% to 11% in 2004, respectively.

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The future minimum lease payments under the above-mentioned capital leases as of December 31, 2004 were as follows:

| NT\$ | US\$ |
|------|------|
|------|------|

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| | | |
|---|-----------|---------|
| Within the following year | 218,603 | 6,887 |
| Within the second year | 136,614 | 4,304 |
| Within the third year | 71,413 | 2,250 |
| Within the fourth year | 1,499 | 47 |
| Within the fifth year | 560 | 18 |
| | ----- | ----- |
| Total minimum lease payments | 428,689 | 13,506 |
| Imputed interest | (32,345) | (1,019) |
| | ----- | ----- |
| Present value of future lease obligations | 396,344 | 12,487 |
| Capital lease obligation, current | (198,831) | (6,264) |
| | ----- | ----- |
| Capital lease obligation, long-term | 197,513 | 6,223 |
| | ===== | ===== |

17. PENSION PLANS

The Company and its subsidiaries, ASE Test, Inc. maintain pension plans for certain employees. Retirement benefits are based on the length of service and average salaries or wages of the last six months before retirement. ISE Labs has a defined contribution savings plan ("401k plan") for eligible employees. This plan permits employees to make contributions up to the maximum limits allowable under Internal Revenue Code Section 401k. ASE Test Malaysia also has a defined contribution plan. In addition, ASE Korea has a pension plan where eligible employees and directors with more than one year of service are entitled to receive a lump-sum payment upon termination of their service with ASE Korea, based on their length of service and rate of pay at the time of termination. The Company, ASE Test, Inc. and ASE Japan make monthly contributions, at a specified percentage of salaries and wages, to pension funds which are in the name of, and are administered by, the employee pension plan committee of the respective entities and are deposited in financial institutions. The financial institutions may invest the assets of the plan in stocks, bonds and other securities. The changes in the retirement funds during the periods indicated are summarized as follows:

| | Year Ended December 31 | | |
|----------------------------|------------------------|---------|-----------|
| | 2002 | 2003 | 2004 |
| | ----- | ----- | ----- |
| | NT\$ | NT\$ | NT\$ |
| Balance, beginning of year | 440,746 | 535,412 | 649,035 |
| Acquisition from ASE Japan | - | - | 299,142 |
| Contributions | 83,996 | 113,077 | 133,398 |
| Payments | (145) | (8,803) | (20,770) |
| Interest income | 10,815 | 9,349 | 20,781 |
| | ----- | ----- | ----- |
| Balance, end of year | 535,412 | 649,035 | 1,081,586 |
| | ===== | ===== | ===== |

Of the Company's plan assets, approximately NT\$29,360 thousand, NT\$29,775 thousand and NT\$30,126 thousand (US\$949 thousand) as of December 31, 2002, 2003 and 2004, respectively, mainly represented amounts contributed by ASE Technology, Inc, which no longer has employees. In accordance with laws of Taiwan, such funds may not be used to settle obligations of the Company or its other subsidiaries.

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The plan assets deposited in the financial institutions as of December 31, 2004, by category, are as follows:

| Type of Investment | Allocation (%) |
|--------------------|----------------|
| Cash | 31 |
| Government Loans | 20 |
| Equities | 38 |
| Notes | 10 |
| Bonds | 1 |
| | ----- |
| | 100 |
| | ===== |

Pension costs for these entities consist of:

| | Year Ended December 31 | |
|---|------------------------|----------|
| | 2002 | 2003 |
| | NT\$ | NT\$ |
| Service costs | 191,707 | 365,402 |
| Interest | 36,102 | 43,312 |
| Projected return on pension assets | (23,003) | (19,413) |
| Amortization of prior period service cost, gain or loss on plan assets | 4,176 | 11,161 |
| | ----- | ----- |
| | 208,982 | 400,462 |
| | ===== | ===== |

Other pension information based on actuarial calculations of the plan during the periods indicated is as follows:

| | December | |
|--|-----------|-------|
| | 2003 | |
| | NT\$ | NT\$ |
| a. Benefit obligations | | |
| Vested benefit obligation | 372,423 | |
| Non-vested benefit obligation | 971,450 | 1, |
| | ----- | ----- |
| Accumulated benefit obligation | 1,343,873 | 1, |
| Additional benefits based on future salaries | 642,098 | 1, |
| | ----- | ----- |
| Projected benefit obligation | 1,985,971 | 3, |
| Fair value of assets | (619,260) | (1, |
| | ----- | ----- |
| Funded status | 1,366,711 | 2, |
| Unrecognized net transition obligation | (96,979) | |

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| | | |
|--------------------------------------|-----------|-------|
| Unrecognized prior service cost | (15,247) | |
| Unrecognized net actuarial loss | (368,778) | |
| Additional pension cost | 31,873 | |
| Portion in other current liabilities | (21,100) | |
| | ----- | ----- |
| Accrued pension cost | 896,480 | 2, |
| | ===== | ===== |

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| | 2003 | December |
|---|--------------|----------|
| | ----- | ----- |
| | NT\$ | NT\$ |
| b. Vested obligation | 380,630 | |
| | ----- | ----- |
| c. Actuarial assumptions used | | |
| Discount rate | 3.25%-4.30% | 2.50% |
| Increase in future salary level | 3.00%-5.00% | 3.00% |
| Expected rate of return on plan assets | 3.25% | 2.50% |
| d. The consolidated entities expect to make contributions of NT\$215,241 thousand (US\$6,781 thousand) to retirement funds in 2005. | | |
| e. Expected benefit payments: | | |
| Year of Payments | | |
| 2005 | NT \$ 91,139 | |
| 2006 | 52,301 | |
| 2007 | 83,461 | |
| 2008 | 65,624 | |
| 2009 | 88,774 | |
| 2010 to 2053 | 14,555,112 | |

Plan assets and obligations reflected herein were measured as of December 31, 2004.

The Company has no other post-retirement or post-employment benefit plans.

18. SHAREHOLDERS' EQUITY

Common Stock

As of December 31, 2004, the Company had "capital received in advance" of NT\$42,759 thousand (US\$1,347 thousand) as a result of employees exercising their options in accordance with the 2002 Stock Option Plan. The "capital received in advance" represents 2,402 thousand shares of common stock, of which only 660 thousand shares were issued and outstanding as of December 31, 2004. The remaining shares will be issued once they have been

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registered with the Taiwan regulator.

American Depositary Shares

In July 1995, the Company issued 8,600,000 GDSs, representing 43,000,000 common shares. In September 2000, the Company issued 20,000,000 ADSs, representing 100,000,000 common shares. In connection with the ADS offering in 2000, the Company offered to exchange all outstanding GDSs for ADSs listed on the New York Stock Exchange.

The GDS or ADS holders generally have the same rights and obligations as other shareholders, subject to provisions of relevant laws. The exercise of such rights and obligations shall comply with the related regulations and the deposit agreement, which stipulate, among other things, that the GDS or ADS holders can, through Citicorp Financial Services Limited as the nominee holder: (a) exercise their voting rights; (b) sell their GDSs or ADSs; and (c) receive dividends declared and subscribe to the issuance of new shares.

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As of December 31, 2004, a portion of the outstanding ADSs were revoked in exchange for approximately 360,549 thousand common shares of the Company, which represented 8.79% of the Company's total outstanding common shares (including treasury stock). As of December 31, 2004, the outstanding ADSs represented 1.80% of the Company's total outstanding common shares (including treasury stock).

Capital Surplus

Under the ROC Company Law, capital surplus from the paid-in capital in excess of par value and from treasury stock transactions can be used to offset a deficit. In addition, such capital surplus may be transferred to capital and is subject to a specified limit under relevant regulations.

Capital surplus from long-term investments in shares of stock which are accounted for by the equity method may not be used for any purpose.

Appropriation of Retained Earnings

The Company's Articles of Incorporation provide that the annual net income shall be appropriated as follows:

- a. offset against deficit, if any;
- b. 10.0% of the remainder as legal reserve, until the accumulated amount equals paid-in capital;
- c. an amount equal to the income from long-term investments in shares of stock accounted for by the equity method, excluding cash dividends, as special reserve;
- d. not more than 2.0% of the remainder, as compensation to directors and supervisors;
- e. between 5.0% to 7.0% of the remainder, as bonus to employees, of which 5.0% will be distributed in accordance with the employee bonus plan and the excess to be distributed to specific employees as decided by the board of directors; and

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f. the remainder, as dividends to shareholders.

The aforementioned appropriations shall be approved by the shareholders in the following year and given effect in the financial statements of such year.

Under the ROC Company Law, the aforementioned legal reserve may be used to offset a deficit. Also, when the reserve has reached 50.0% of capital stock, up to 50.0% thereof may be transferred to capital stock.

The appropriations of the 2002 and 2003 earnings, as resolved at the Company's annual shareholder's meetings, were as follows:

| | Amount | |
|--|---------|-----------|
| | 2002 | 2003 |
| | NT\$ | NT\$ |
| Legal reserve | 12,903 | 274,279 |
| Compensations to directors and supervisors | 2,280 | 49,320 |
| Bonus to employees - cash | 8,000 | 18,428 |
| Bonus to employees - stock | - | 154,272 |
| Stock dividends - NT\$0.03 in 2002 and NT\$0.57 in 2003 per share, respectively | 97,644 | 2,219,774 |
| | ----- | ----- |
| | 120,827 | 2,716,073 |
| | ===== | ===== |

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The stock dividends per share represent dividends paid in the fiscal year for shares outstanding on the record date applicable to the payment of these dividends. However, such dividend was reduced from NT\$0.62 to NT\$0.57 upon the completion of the merger with ASE Chung Li and ASE Material.

The information related to appropriations of the 2002 and 2003 earnings may be accessed through the website of the Taiwan Stock Exchange.

Dividend Policy

In order to meet the needs of the Company's present and future capital expenditures, the Company's dividend distribution shall be primarily in the form of stock dividends. Cash dividends may also be distributed in certain circumstances. However, the percentage of cash dividends generally shall not exceed 20.0% of any dividend declared.

With respect to the percentage of cash dividends to be paid referred to in the preceding paragraph, the Company may decide the most suitable manner to distribute such dividends in accordance with its current operational status while taking into consideration the budget plan for the following year. The board of directors shall propose a profit distribution plan, which shall be submitted to the shareholders for approval before implementation.

Effect of Bonuses to Employees, Directors and Supervisors

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Should the bonuses to employees, directors and supervisors be charged to expense in 2003, the basic and diluted earnings per share (after tax) for 2003 would decrease from NT\$0.74 and NT\$0.73 to NT\$0.68 and NT\$0.67, respectively. The common shares issued for bonus to employees represented 0.41% of the Company's total outstanding common shares as of December 31, 2003.

Imputation Tax System

Under the Integrated Income Tax System which became effective on January 1, 1998, non-corporate resident shareholders are allowed a tax credit for the income tax paid or payable by the Company on earnings generated in 1998 and onwards. Non-resident shareholders are allowed only a tax credit from the 10% income tax on undistributed earnings, which can be used to deduct the withholding income tax on dividends paid. An Imputation Credit Account ("ICA") is maintained by the Company for such income tax and the tax credit allocated to each shareholder. The maximum credit available for allocation to each shareholder cannot exceed the balance shown in the ICA on the date of distribution of dividends.

As of December 31, 2004, the creditable taxes aggregated NT\$297,354 thousand (US\$9,368 thousand). The actual percentage for the distribution of 2003 earnings and estimated percentage for the distribution of 2004 earnings were 4.40% and 4.32%, respectively.

Treasury Stock

| Purpose | Thousand Shares, Beginning of year | Increase | Decrease | Thousand Shares, End of Year |
|-----------------------------|---|----------|----------|------------------------------------|
| 2003 | | | | |
| Shares held by subsidiaries | 164,442 | 65 | 163,789 | 718 |
| | ===== | ===== | ===== | ===== |
| 2004 | | | | |
| Shares held by subsidiaries | 718 | 247,567 | - | 248,285 |
| | ===== | ===== | ===== | ===== |

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Effective January 1, 2002, the Company reclassified its shares held by its subsidiaries with book value of NT\$2,639,826 thousand, representing 164,442 thousand shares, from long-term investment to treasury stock.

The treasury stock increased by 65 thousand shares in 2003 and by 13,478 thousand shares in 2004 because of the Company's capitalization of retained earnings. Of these shares, 163,789 thousand were sold at NT\$2,850,524 thousand. The amount of NT\$220,735 thousand in excess of the book value of NT\$2,629,789 thousand was recorded as capital surplus, while subsidiaries recorded the excess as investment income. This transaction resulted in the increase in realized loss on long-term investments of NT\$354,787 thousand in 2003.

As disclosed in Note 1, the Company issued common shares in connection with the merger. The Company reclassified the shares held by its subsidiaries with a book value of NT\$2,798,399 thousand (US\$88,166 thousand), representing 234,089 thousand shares, from long-term investments to treasury stock. The Company's subsidiary, ASE Test, is a Singapore incorporated company, and may not acquire, directly or indirectly, shares or units of shares in the Company under Singapore law. In order to comply with relevant regulations, a trust has been established to hold and dispose of the Company's shares obtained in connection with this merger. ASE Test does not have any rights with respect to the common shares held in trust, other than the right to receive the proceeds from the sale of such common shares and any cash dividends declared while the shares remain in trust.

As of December 31, 2004, the book value of those shares was NT\$2,645,575 thousand (US\$83,351 thousand), representing 248,285 thousand shares, which had a market value of NT\$3,956,878 thousand (US\$124,665 thousand).

Although these shares are treated as treasury stock in the financial statements, the shareholders are entitled to exercise their rights on these shares, except for participation in additional capital increases through cash payment.

19. EMPLOYEE STOCK OPTION PLANS

In order to attract, retain and incentivize employees, the Company adopted two employee stock option plans, the 2002 Plan and the 2004 Plan, which were approved in August 2002 and May 2004, respectively. The maximum number of units authorized to be granted under 2002 Plan and 2004 Plan is 160,000 thousand and 140,000 thousand, respectively, with each unit representing one common stock. Under the terms of the plans, stock option rights are granted at an exercise price equal to the closing price of the Company's common shares listed on the Taiwan Stock Exchange (TSE) on the date of grant. The option rights of both plans are valid for ten years and exercisable at certain percentages subsequent to the second anniversary of the grant date. Under the 2002 Plan, the number of units authorized, including those which were never granted and those which had been granted and subsequently cancelled, all expired as of August 2004. Under the 2004 Plan, 124,917 thousand units were granted and 83 thousand units will never be granted. The remaining 15,000 thousand units have not yet been granted and are expected to be granted before May 27, 2005.

ASE Test has six stock option plans, the 1996 Executive Management Option Plan (the "1996 Plan"), and the 1997, 1998, 1999, 2000 and 2004 Option Plans. Stock options granted under these plans are exercisable for ASE Test ordinary shares based on a vesting schedule over five to ten years until the options expire.

Information on the outstanding stock options in 2003 and 2004 is as follows:

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ASE Option Plan

| | 2003 | |
|--------------------------|-----------|------------------|
| | ----- | ----- |
| Number of Outstanding | Weighted- | Number Outsta |

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| | Stock Option Rights (in Thousands) | Average Exercise Prices (NT\$) | Stock O Righ (in Thou |
|---------------------------------------|--|--------------------------------------|-----------------------------|
| Beginning outstanding balance | 145,989 | \$17.80 | 14 |
| Options granted | 13,979 | 23.20 | 12 |
| Options forfeited | (13,216) | 17.90 | (|
| Options exercised | - | - | |
| | ----- | | ----- |
| Ending outstanding balance | 146,752 | 18.30 | 26 |
| | ===== | | ===== |
| Ending options exercisable | - | | 4 |
| | ===== | | ===== |
| Fair value under the 2004 Plan (NT\$) | \$ - | | \$ |
| | ===== | | ===== |

The number of outstanding options and their exercise prices have been adjusted to reflect the dilution attributable to the distribution of stock dividends in accordance with the terms of the plans.

Information on outstanding and exercisable option rights as of December 31, 2004 is as follows:

| Exercise Price (NT\$) | Number of Outstanding Options (in Thousands) | Remaining Contractual Life (Years) |
|--------------------------|---|--|
| 17.8 | 125,145 | 8.0 |
| 23.2 | 12,618 | 8.6 |
| 25.1 | 124,026 | 9.5 |
| | ----- | |
| | 261,789 | |
| | ===== | |

The Company used the Black-Scholes Option Pricing Model to evaluate the fair market value of the 2004 Plan options, using the following assumptions:

| | |
|-------------------------|---------|
| Expected dividend yield | 3.00% |
| Expected volatility | 59% |
| Risk free interest rate | 2.50% |
| Expected life | 5 years |

ASE Test Option Plan

Information regarding the stock options granted or modified after January 1, 2004 is presented below:

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| Number of | Weighted Average Exercise | Weighted Average |
|-----------|---------------------------------|---------------------|
|-----------|---------------------------------|---------------------|

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| | Shares (in thousands) | Price Per Share (US\$) | Grant Date Fair Values (US\$) |
|------------------------------------|-----------------------------|------------------------------|-------------------------------------|
| Option granted | 260 | \$ 6.18 | \$ 6.18 ===== |
| Option exercised | - | - | |
| Option forfeited | - | - | |
| Option expired | - | - | |
| ----- | | | |
| Ending balance - December 31, 2004 | 260 | 6.18 | ===== |

Above options outstanding at December 31, 2004 and the related weighted average exercise price and remaining contractual life information is as follows:

| | Outstanding | | Exercisable | |
|--|-----------------------------|--|-----------------------------|-----------------------|
| | Shares (in thousands) | Weighted Average Price (US\$) | Shares (in Thousands) | Wei Av Pr (U |
| Options with exercise price of \$ 6.18 | 260 | \$ 6.18 | - | \$ |
| | ===== | | ===== | |

ASE Test used the Black-Scholes Option Pricing Model to evaluate market price of the 2004 Plan and the assumptions are as follows:

| | |
|-------------------------|-------------|
| Expected dividend yield | - |
| Expected volatility | 78.28% |
| Risk free interest rate | 3.50%-3.88% |
| Expected life | 5 years |

For purposes of the pro forma disclosure below, the estimated fair value of the options is assumed to be amortized to expense over the option rights' respective vesting periods. Had the Company and ASE Test used the fair value based method to evaluate the options granted, the method, assumptions and pro forma results of the Company in 2004 would have been as follows:

| | NT\$ | US\$ |
|---|-----------|---------|
| Net income for calculation of basic EPS | | |
| As reported | 4,209,690 | 132,629 |
| Pro forma | 3,784,386 | 119,231 |
| Net Income for calculation of diluted EPS | | |
| As reported | 4,373,239 | 137,783 |
| Pro forma | 3,947,935 | 124,384 |
| Earnings per share (EPS): | | |
| Basic EPS as reported | 1.09 | 0.03 |
| Pro forma basic EPS | 0.98 | 0.03 |
| Diluted EPS as reported | 1.06 | 0.03 |
| Pro forma diluted EPS | 0.96 | 0.03 |

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20. PERSONNEL EXPENDITURE, DEPRECIATION AND AMORTIZATION

| | Year Ended December 31, 2003 | | | Year Ended De | |
|----------------------------|------------------------------|-----------|------------|---------------|-----------|
| | Cost of | Operating | Total | Cost of | Operating |
| | Revenues | Expenses | | Revenues | Expenses |
| | NT\$ | NT\$ | NT\$ | NT\$ | NT\$ |
| Personnel | | | | | |
| Salary | 7,206,380 | 2,024,201 | 9,230,581 | \$10,401,732 | 2,611,914 |
| Pension cost | 343,734 | 94,601 | 438,335 | 506,552 | 147,318 |
| Meal allowance | 228,783 | 36,951 | 265,734 | 356,976 | 65,177 |
| Welfare | 25,300 | 7,120 | 32,420 | 69,761 | 17,926 |
| Labor and health insurance | 476,816 | 153,492 | 630,308 | 787,325 | 222,287 |
| Others | 371,245 | 246,578 | 617,823 | 339,890 | 110,201 |
| | 8,652,258 | 2,562,943 | 11,215,201 | 12,462,236 | 3,174,823 |
| Depreciation | 11,516,968 | 693,942 | 12,210,910 | 13,247,095 | 651,003 |
| Amortization | 377,623 | 178,035 | 555,658 | 641,010 | 247,164 |

21. INCOME TAX

a. Income tax benefit is summarized as follows:

| | Year Ended December | |
|---|---------------------|-----------|
| | 2002 | 2003 |
| | NT\$ | NT\$ |
| Tax (benefit) based on pre-tax accounting income (loss) at statutory rate | (950,597) | 604,102 |
| Add (less) tax effects of: | | |
| Permanent differences | | |
| Tax-exempt income | | |
| Tax holiday | (52,126) | (481,214) |
| Gain from sales of securities | (16,798) | (10,357) |
| Temporary differences | | |
| Investment loss | 793,812 | 131,560 |
| Other investment loss | - | - |
| Unfunded pension cost | 24,239 | 86,255 |
| Bond interest payable | (163,289) | 16,776 |
| Other | 629,545 | (184,453) |
| | 264,786 | 162,669 |
| Income taxes on undistributed earnings | 54,598 | 170,281 |
| Credits for investments and research and development | (331,255) | (439,457) |

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| | | | |
|--|-------------|-------------|---|
| Net change in deferred income tax for the period | (1,130,358) | (1,190,500) | (|
| Adjustment of prior year's income tax | 1,905 | 18,859 | |
| | ----- | ----- | |
| | (1,140,324) | (1,278,148) | (|
| | ===== | ===== | |

- b. The above-mentioned taxes on pre-tax accounting income (loss) based on the applicable statutory rates for both domestic and foreign entities are shown below:

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| | Year Ended December | | |
|--|---------------------|-----------|-------|
| | 2002 | 2003 | |
| | ----- | ----- | ----- |
| | NT\$ | NT\$ | N |
| Domestic entities in ROC (25% statutory rate) | (173,787) | 750,348 | |
| Foreign entities | | | |
| ASE Korea (30.8% statutory rate) | - | 74,806 | |
| ASE Japan (40% statutory rate) | - | - | |
| ISE Labs (federal tax rate 35% and state tax rate 6%) | (725,744) | (209,911) | |
| ASE Test Malaysia (30% statutory rate) | (51,066) | (11,141) | |
| | ----- | ----- | |
| | (950,597) | 604,102 | |
| | ===== | ===== | |

- c. Deferred income tax assets and liabilities are summarized as follows:

| | Dece | | |
|---|-------|-----------|--|
| | 2003 | | |
| | ----- | | |
| | NT\$ | | |
| Current deferred income tax assets | | | |
| Unused tax credits | | 1,054,370 | |
| Provision for inventory obsolescence | | 50,475 | |
| Provision for doubtful accounts and sales allowance | | 33,754 | |
| Unrealized foreign exchange loss (gain) | | 65,118 | |
| Other | | 29,752 | |
| | | ----- | |
| | | 1,233,469 | |
| Valuation allowance | | (8,968) | |
| | | ----- | |
| Net current deferred income tax assets | | 1,224,501 | |
| | | ===== | |
| Non-current deferred income tax assets | | | |

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| | | |
|--|-------------|-------|
| Unused tax credits | 3,101,039 | |
| Accrued pension costs | 153,924 | |
| Loss carryforwards | 483,538 | |
| Investment income | (144,000) | |
| Others | 120,387 | |
| | ----- | ----- |
| | 3,714,888 | |
| Valuation allowance | (1,484,659) | (|
| | ----- | ----- |
| Net non-current deferred income tax assets | 2,230,229 | |
| | ===== | ===== |
| Non-current liabilities | | |
| Goodwill amortization | (34,674) | |
| | ===== | ===== |

In assessing the realizability of deferred income tax assets, the Company considers its future taxable earnings and expected timing of the reversal of temporary differences. In addition, in the event future taxable earnings do not materialize as forecasted, the Company will consider executing certain tax planning strategies available to realize the deferred income tax assets. The valuation allowance is provided to reduce the gross deferred income tax assets to an amount which the Company believes will more likely than not be realized. Deferred income tax assets and liabilities are classified in the consolidated balance sheets based on the classification of the related assets or liabilities or the expected timing of the reversal of temporary differences.

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The U.S. Federal and California State net operating loss carryforwards of ISE Labs as of December 31, 2004 approximated US\$16.3 million and US\$30.8 million with expiration periods in 2024 and 2014, respectively.

A portion of the Company's and ASE Test, Inc.'s income from the manufacturing, processing and testing of semiconductors is exempt from income tax for the five years ending December 2005 and 2007, respectively. A portion of ASE Chung Li's income from the manufacturing, processing and testing of semiconductors is exempt from income tax for the five years ending 2007.

ASE Test Malaysia had been granted pioneer status by Ministry of International Trade and Industry in Malaysia for five years from July 1, 1999 to June 30, 2004. During the year 2003, the Company had applied to the relevant authorities to surrender its pioneer status in line with the 2003 budget proposal, which allows a pioneer company that intends to undertake reinvestment before the expiry of its pioneer status the option to surrender its pioneer certificate to qualify for reinvestment allowance. On September 11, 2004, the Malaysian Industrial Development Authority had approved the Company's surrender of pioneer status with effect from September 21, 2002, the date of announcement of the 2003 budget proposal.

The per share effect of this tax holiday was NT\$0.02 in 2002, NT\$0.14 in 2003 and NT\$0.16 in 2004, respectively.

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- d. As of December 31, 2004, unused tax credits of subsidiaries which can be utilized to offset their future income tax are set forth below:

| Year of Expiry | ASE | ASE | ASE Korea | To |
|---------------------|-----------|--------------------|-----------|-----------|
| | NT\$ | Test, Inc. NT\$ | NT\$ | NT\$ |
| 2004 | 203,765 | - | - | 203,765 |
| 2005 | 468,915 | 76,717 | - | 545,632 |
| 2006 | 882,384 | 305,193 | 170,245 | 1,357,822 |
| 2007 | 1,044,224 | 588,402 | 262,230 | 1,894,856 |
| 2008 and thereafter | 1,252,324 | 441,773 | 143,084 | 1,837,181 |
| | 3,851,612 | 1,412,085 | 575,559 | 5,839,256 |

In the ROC, the tax credits may be utilized to reduce up to 50% of income tax payable each year. In the year of expiration, any remainder of unused tax credits can be used entirely.

Income tax returns of the Company and ASE Test, Inc. in Taiwan have been examined by the ROC tax authorities through the 2002 tax year. (Income tax returns of ASE Material and ASE Chung Li have been examined through 2001 and 2000, respectively.)

22. EARNINGS PER SHARE

The Company's common shares corresponding to the employees' stock options and convertible bonds had a dilutive effect on the 2002, 2003 and 2004 EPS calculation. The employee stock options issued by the Company's subsidiary, ASE Test Limited, had no dilutive effect on the 2002, 2003 and 2004 EPS calculation. The numerators and denominators used in the EPS calculations were as follows:

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- a. Numerator - net income

| | 2002 | |
|--|------------------------------|-----------------------------|
| | Before Income Tax NT\$ | After Income Tax NT\$ |
| Income before extraordinary loss and cumulative effect of change in accounting principle | (799,520) | 163,648 |
| Extraordinary loss | (46,151) | (34,613) |
| Cumulative effect of change in accounting principle | - | - |
| Basic EPS | | |
| Income of common shareholders | (845,671) | 129,035 |
| Interest, net of tax, paid on convertible bonds | - | - |

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| | | |
|--|-------------------|---------|
| Diluted EPS | | |
| Income of common shareholders | (845,671) | 129,035 |
| | ===== | ===== |
| | | 2004 |
| | ----- | |
| | Before Income Tax | |
| | ----- | |
| | NT\$ | US\$ |
| Income before extraordinary loss and cumulative effect of change in accounting principle | 3,282,673 | 103,434 |
| Extraordinary loss | - | - |
| Cumulative effect of change in accounting principle | (26,844) | (846) |
| | ----- | ----- |
| Basic EPS | | |
| Income of common shareholders | 3,255,829 | 102,578 |
| Interest, net of tax, paid on convertible bonds | 197,762 | 6,231 |
| | ----- | ----- |
| Diluted EPS | | |
| Income of common shareholders | 3,453,591 | 108,809 |
| | ===== | ===== |

b. Denominator - shares (in thousands)

| | | |
|---|-----------|-------|
| | 2002 | 200 |
| Weighted-average number of common stock | 3,254,800 | 3, |
| Retroactive adjustments for capitalization of retained earnings | 546,660 | |
| Issuance of common stock in connection with the merger | - | |
| Stock Bonuses paid to employees | - | |
| Shares issued in connection with stock options exercised by employees | - | |
| Shares held by subsidiaries | (191,687) | |
| | ----- | ----- |
| Number of shares used for purposes of the basic EPS calculation | 3,609,773 | 3, |
| Potential number shares issuable upon exercise of unvested options | - | |
| Potential number of outstanding shares assumed upon conversion of convertible bonds | - | |
| | ----- | ----- |
| Number of shares used in the diluted EPS calculation | 3,609,773 | 3, |
| | ===== | ===== |

For purposes of the ADS calculation, the denominator represents the above-mentioned weighted average outstanding shares divided by five (one ADS represents five common shares). The numerator was the same.

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23. RELATED PARTY TRANSACTIONS

a. Related parties

| Related Parties | Relationship with the Company |
|--|-------------------------------|
| Hung Ching Development & Construction Co. ("HCDC") | Affiliate |
| USI Electronics (Shanghai) Co., Ltd. ("USI-SH") | Affiliate |

b. The significant transactions with related parties are summarized as follows:

| | Amount | | % of Total |
|------------------------|---------|--------|---------------|
| | NT\$ | US\$ | |
| For the year, 2004 | | | |
| Purchase of materials | | | |
| USI-SH | 72,164 | 2,274 | - |
| Purchase of properties | | | |
| HCDC | 398,766 | 12,563 | 2 |
| USI-SH | 126,310 | 3,980 | - |
| | 525,076 | 16,543 | 2 |

The price of material bought from related parties was commensurate with similar purchases from third parties. The collection terms range from 30 days to 60 days, which is consistent with the terms provided by third parties for similar transactions.

The price for property purchased from or sales to USI-SH is based on book value. The payment term is one month, which is similar to those for similar transactions with third parties.

The amount the Company paid in buying real estate from HCDC was based on an appraiser's assessment.

| | Amount | | % of Total |
|----------------------|---------|-------|---------------|
| | NT\$ | US\$ | |
| At end of year, 2004 | | | |
| Receivable | 14,140 | 445 | - |
| Payables | 117,852 | 3,713 | 1 |

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24. ASSETS PLEDGED OR MORTGAGED

The assets pledged or mortgaged as first priority collateral are summarized as follows:

| | December 31 | | |
|-----------------------------------|-------------|------------|---------|
| | 2003 | 2004 | |
| | NT\$ | NT\$ | US\$ |
| Land | 374,621 | 351,992 | 11,090 |
| Buildings and improvements | 1,852,435 | 1,651,734 | 52,039 |
| Machinery and equipment | 9,544,523 | 9,419,416 | 296,768 |
| Pledged time deposits | 167,426 | 125,599 | 3,957 |
| Guarantee deposit - time deposits | 102,720 | 137,340 | 4,327 |
| Short-term investment | 90,000 | - | - |
| | 12,131,725 | 11,686,081 | 368,181 |

25. COMMITMENTS AND CONTINGENCIES AS OF DECEMBER 31, 2004

- a. The Company and ASE Test, Inc. lease the land on which their buildings are situated under various operating lease agreements with the government expiring on various dates ranging from December 2012 to July 2014. The agreements grant these entities the option to renew the leases and reserve the right for the lessor to adjust the lease charges upon an increase in the assessed value of the land and to terminate the leases under certain conditions. The Company, ASE Test, Inc. and ASE Test Malaysia lease machinery and equipment under non-cancelable operating leases. ISE Labs also leases office buildings and equipment under non-cancellable operating lease agreements. The rental expenses for the years ended December 31, 2002, 2003 and 2004 were US\$9,936 thousand, US\$10,427 thousand and US\$40,841 thousand, respectively.

The future minimum lease payments under the above-mentioned operating leases are as follows:

| Operating Leases | NT\$ | US\$ |
|------------------------------|-----------|---------|
| 2005 | 1,810,650 | 57,046 |
| 2006 | 1,526,822 | 48,104 |
| 2007 | 600,773 | 18,928 |
| 2008 | 170,837 | 5,382 |
| 2009 and thereafter | 300,688 | 9,474 |
| | ----- | ----- |
| Total minimum lease payments | 4,409,770 | 138,934 |
| | ===== | ===== |

- b. The Company, ASE Test, Inc., ISE Labs, ASE Test Malaysia and ASE Korea engage outside sales agencies. Commissions and service fees were paid based on monthly incurred service-related costs and expenses plus a certain percentage (there are limited amounts prescribed for costs and expenses incurred) or based on a certain percentage of net export sales. Commissions and service fees paid in 2002, 2003 and 2004 were approximately NT\$734,322 thousand, NT\$973,031 thousand and NT\$769,637 thousand (US\$24,248 thousand), respectively.

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- c. As of December 31, 2004, unused letters of credit were approximately NT\$1,776,000 thousand (US\$55,955 thousand).
- d. As of December 31, 2004, commitments to purchase machinery and equipment were approximately NT\$7,600,000 thousand (US\$239,445 thousand), including a commitment to buy machinery and equipment (M&E) for US\$69,317 thousand. Under the related contract, the Company and the subsidiary must make fixed monthly payments at a certain percentage of the purchase amount. The

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amount paid may be used to offset a certain percentage of the cost of future purchases, if any, of additional machinery and equipment from these entities.

- e. As of December 31, 2004, outstanding commitments related to the construction of buildings were approximately NT\$3,264,000 thousand (US\$102,836 thousand).
- f. The Company entered into technology license agreements with foreign companies which will expire on various dates through 2010 under which the Company has licensed certain technologies used in the packaging of certain products. Pursuant to such agreements, the Company shall pay royalties, based on specified percentages of sales quantities, and license fees. Such royalties in 2003 and 2004 were approximately NT\$218,764 thousand and NT\$163,975 thousand (US\$5,166 thousand), respectively. As of December 31, 2004, the Company had paid license fees of US\$5,500 thousand related to such agreements, of which NT\$59,586 (US\$1,877 thousand) was included in deferred charges.
- g. The Company entered into a co-construction agreement with HCDC, an affiliated company, in April 2003. The Company provided the land leased from the government to Hung Ching to build an office building. Under this agreement, after completion of the construction, the Company will own 21,810 square meters and HCDC will own 86,214 square meters. In December 2004, the Company and ASE Test Inc., entered into contracts with HCDC to purchase HCDC's 85,702 square meters for NT\$ 1,329,217 thousand (US\$41,878 thousand). As of December 31, 2004, the amount paid pursuant to this agreement was approximately NT\$398,766 thousand (US\$12,564 thousand) and was recorded as construction in process.
- h. On August 27, 2004, the Company and the subsidiary, ASE Test, Inc., entered a syndicated lease receivables purchase facility agreement with three eligible lessors and banks. Under this agreement, the banks have agreed to purchase from the eligible lessors receivables, if any, from the Company and ASE Test, Inc. in an amount up to US\$90,000 thousand and within 12 months after the contract date. The Company and ASE Test, Inc. will be required to issue promissory notes in favor of the banks as evidence of any obligations entered into under the agreement.
- i. As of December 31, 2004, the Company had endorsed and guaranteed the promissory notes of its subsidiaries as follows:

| | NT\$ | US\$ |
|------------------|-----------|---------|
| ASE Test Finance | 4,787,550 | 150,836 |

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| | | |
|--|------------|---------|
| ASE Japan | 2,593,280 | 81,704 |
| ASE Shanghai | 1,755,435 | 55,307 |
| HCDC | 960,000 | 30,246 |
| ASE Holding Electronics (Philippines), Incorporated | 92,559 | 2,916 |
| Omniquest | 319,170 | 10,056 |
| ASE Singapore Pte Ltd | 874,659 | 27,557 |
| | ----- | ----- |
| | 11,382,653 | 358,622 |
| | ===== | ===== |

26. DERIVATIVE FINANCIAL INSTRUMENTS

The Company, ASE Test, Inc., ASE Material and ASE Korea entered into European foreign currency option contracts, forward exchange contracts, cross-currency swaps, interest rate swap contracts and interest rate swaptions in 2003 and 2004 in order to manage the Company's exposure to fluctuations associated with foreign currency denominated assets and liabilities, variable interest rates and foreign exchange rate fluctuations. The Company does not enter into derivative contracts for trading purposes.

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Information on such derivative transactions is as follows:

a. European foreign currency option contracts

- 1) Because the Company expects to receive U.S. dollars from export sales and to pay Japanese yen or New Taiwan dollars to settle payables or bank borrowings, the Company occasionally enters into European foreign currency option contracts to manage its exposure to exchange rate fluctuations.

The outstanding contracts as of December 31, 2004 are shown in Schedule I.

- 2) Because the Company expects to pay Japanese yen to settle certain yen denominated payables, the Company occasionally enters into European foreign currency option contracts to manage its exposure to exchange rate fluctuations.

The outstanding contracts as of December 31, 2004 are shown in Schedule II.

- 3) The Company occasionally enters into European foreign currency option contracts to manage its exposure to exchange rate fluctuations associated with its net investments in foreign operations.

The outstanding contracts as of December 31, 2004 are shown in Schedule III.

The gain on exchange rates arising from such contracts approximated NT\$79,758 thousand and NT\$48,181 thousand (US\$1,518 thousand) in 2003 and 2004 (including exchange loss of NT\$7,162 thousand and exchange income of NT\$33,310 thousand (US\$1,049 thousand) arising from such contracts based on mark-to-market valuation on the balance sheet date), respectively.

b. Forward exchange contracts

The Company entered into forward contracts to manage its exposure to foreign exchange rate fluctuations associated with its long-term debt and payables. As of December 31, 2004, there were no outstanding contracts. The gain or loss arising from such contracts during the years ended December 31, 2003 and 2004 was immaterial.

c. Cross-currency swap contract

In October 2003, the Company entered into two cross-currency swap contracts with banks to manage its exposure to interest rate and exchange rate fluctuations associated with its long-term bond payables. These contracts will expire in October 2007 and September 2008, respectively. The terms of these contracts provide for a semi-annual exchange of interest payment, whereby the Company pays an annual interest rate of 1.7% and receives an annual interest rate of 2.7% on a nominal amount of US\$200,000 thousand. The Company had net interest income of NT\$11,056 thousand (US\$348 thousand) and NT\$57,410 thousand (US\$1,809 thousand) from these contracts in 2003 and 2004, respectively, which was recorded as an offset to interest expense on the bonds.

The Company adjusted the related receivables and payables associated with the cross-currency swap contracts based on the spot rate as of December 31, 2004. The exchange loss arising from such contracts, based on the spot rate on December 31, 2004, was approximately NT\$322,321 thousand (US\$10,155 thousand) in 2004, and the cumulated unrealized exchange loss was NT\$319,181 thousand (US\$10,056 thousand).

d. Interest rate swap contracts

In December 2003, the Company entered into an interest rate swap contract with a bank to manage its exposure to interest rate fluctuations associated with its long-term debt. The contract will expire in January 2009. The terms of the contract provide for a semi-annual exchange of interest payments whereby the company pays a floating rate and receives an annual interest rate 3.6% on an underlying

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nominal amount of NT\$2.75 billion.

The Company recorded net interest income of NT\$87,699 thousand (US\$2,763 thousand) from the contract in 2004, which was recorded as an offset against interest expense on the bonds.

e. Interest rate swaption contract

In May 2004, the Company entered into an interest rate swaption contract with a bank whereby the Company pays a floating interest rate, 6-month USD-LIBOR-BBA, and receives a fixed annual rate of 3.65%. The notional amount of the contract is US\$20,000 thousand. Payment dates are November 23, 2005 and May 23, 2006, the contract termination date.

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In April 2004, the Company entered into another interest rate swaption contract which will expire in October 2007. The terms of the contract provide that if the 6-month USD-LIBOR-BBA rate ever reaches 5% before the expiration of the contract, the interest to be paid to the bank during the contract period is calculated as the number of days for which index rate 6-month USD-LIBOR-BBA is greater than 5% divided by the numbers of days that have passed during the contract period, multiplied by the fixed rate of 2.7%. The notional amount of the contract is US\$157,000 thousand. Payment dates are every April 20 and October 20 starting from October 20, 2004 through the expiration date.

f. Transaction risk

1) Credit risk

The Company is exposed to credit risk in the event of non-performance of the counter parties to forward contracts on maturity. In order to manage this risk, the Company transacts only with financial institutions with good credit ratings. As a result, no material losses resulting from counter party defaults are anticipated.

2) Market risk

The Company periodically purchases and sells products in currencies other than its functional currencies. This subjects the Company to the risks associated with fluctuations of foreign currency exchange rates. The Company reduces this risk by utilizing natural hedging (offsetting receivables and payables) as well as by creating offsetting positions through the use of derivative financial instruments, primarily foreign currency options contracts with maturities of less than six months. The market risk related to the foreign currency options contracts is typically offset by the changes in valuation of the underlying items being hedged. The amount of risk and the use of derivative financial instruments described above are not material to the Company's financial position or results of operations. As of December 31, 2004, the Company had certain outstanding debt which was in variable rate short-term instruments as well as fixed rate instruments. Accordingly, the Company will be impacted by any change in short-term interest rates. The Company does not hedge either its investment in its foreign operations or its floating interest rate exposures.

3) Liquidity risk and cash flow risk

The Company entered into European option contracts and forward exchange contracts to manage its exposure to the effect of exchange rate fluctuations on net assets or net liabilities. As the Company has sufficient operating capital to meet cash requirements upon the maturity of these contracts, the Company believes there are no significant liquidity or cash flow risks.

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| | December 31 | | | |
|---|--------------------|-------------|-----------------|-----------|
| | 2003 | | 2002 | |
| | Carrying Values | Fair Values | Carrying Values | |
| | NT\$ | NT\$ | NT\$ | US\$ |
| Non-derivative financial instruments | | | | |
| Assets | | | | |
| Cash and cash equivalents | 8,562,425 | 8,562,425 | 5,975,103 | 188,250 |
| Short-term investments | 3,017,779 | 3,023,055 | 3,194,183 | 100,630 |
| Notes receivable | 111,596 | 111,596 | 89,612 | 2,820 |
| Accounts receivable | 12,798,135 | 12,798,135 | 13,586,635 | 428,060 |
| Other receivable | 206,475 | 206,475 | 915,433 | 28,840 |
| Pledged time deposit | 167,426 | 167,426 | 127,629 | 4,020 |
| Long-term investments including deferred credit of long-term investment | 6,339,655 | 4,736,368 | 4,877,216 | 153,660 |
| Guarantee deposit | 359,908 | 359,908 | 383,131 | 12,070 |
| Liabilities | | | | |
| Short-term borrowings | 5,048,230 | 5,048,230 | 3,733,433 | 117,620 |
| C/P and B/A payable | 1,075,965 | 1,075,965 | 908,816 | 28,630 |
| Notes and Accounts payable | 6,488,989 | 6,488,989 | 7,899,950 | 248,890 |
| Accrued expense | 1,839,276 | 1,839,276 | 3,163,155 | 99,650 |
| Payables for properties | 4,392,340 | 4,392,340 | 6,500,851 | 204,810 |
| Long-term bonds payable | 6,861,232 | 7,511,616 | 9,440,582 | 297,430 |
| Long-term bank loan (included current portion) | 29,364,701 | 29,364,701 | 38,903,219 | 1,225,680 |
| Capital lease obligation (included current portion) | 270,129 | 270,129 | 396,344 | 12,480 |
| Long-term payable for investments (included current portion) | 2,309,960 | 2,309,960 | - | - |
| Derivative financial instruments | | | | |
| European options | - | - | (3,297) | (104) |
| Forward exchange contracts | (7,162) | (7,162) | 42,335 | 1,330 |
| Cross currency swap contract | (68,110) | (68,110) | (310,089) | (9,770) |

The carrying values of cash and cash equivalents, notes receivable, accounts receivable, short-term borrowings, commercial paper and bank acceptance payables, notes and accounts payable approximate their fair values due to the short-term nature of these instruments. The fair values of short-term and long-term investments are determined based on market values or net equity values. The book value of pledged time deposits and guarantee deposits represents their fair value. The fair values of long-term bonds, capital lease obligations and payables for investments are determined based on the market value or the estimated present value of future cash flows using interest rates of similar debt instruments which the Company is able to obtain as the discount rate. The fair value of variable rate long-term bank loans approximate their carrying values. The derivative financial instruments are recorded at their fair market values.

28. SEGMENT AND GEOGRAPHICAL INFORMATION

a. Geographical sales information

- 1) Net revenue:

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| | Year Ended December 31 | | | | |
|----------------------|------------------------|---------------------|------------|---------------------|------------|
| | 2002 | | 2003 | | |
| | NT\$ | % of Total Revenues | NT\$ | % of Total Revenues | NT\$ |
| America | 26,922,752 | 59 | 34,480,470 | 60 | 47,569,000 |
| Taiwan | 11,342,210 | 25 | 15,498,114 | 27 | 17,656,600 |
| Europe | 2,766,981 | 6 | 4,741,725 | 8 | 6,664,900 |
| Asia and other areas | 4,554,895 | 10 | 2,591,461 | 5 | 9,822,000 |
| | 45,586,838 | 100 | 57,311,770 | 100 | 81,712,600 |

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2) Long-lived assets:

| | December 31 | | |
|---------|-------------|------------------------------|------------|
| | 2003 | | 2002 |
| | NT\$ | % of Total Long-lived Assets | NT\$ |
| Taiwan | 52,020,556 | 77 | 61,258,813 |
| Asia | 14,442,830 | 22 | 20,286,615 |
| America | 876,561 | 1 | 841,487 |
| | 67,339,947 | 100 | 82,386,915 |

b. Major customers

Customers that account for 10% or more of total revenues are shown below:

| | Year Ended December 31 | | | | |
|------------|------------------------|---------------------|-----------|---------------------|-----------|
| | 2002 | | 2003 | | |
| | NT\$ | % of Total Revenues | NT\$ | % of Total Revenues | NT\$ |
| Customer A | 7,703,767 | 17 | 5,815,933 | 10 | 6,380,000 |

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c. Reported segment information

The Company has three reportable segments: packaging, testing and investing. The Company packages bare semiconductors into finished semiconductors with enhanced electrical and thermal characteristics; provides testing services, including front-end engineering testing, wafer probing and final testing services; and engages in investing activities. The accounting policies of the segments are the same as those described in Note 2. Segment information for the years ended December 31, 2002, 2003 and 2004 is as follows:

| | Packaging | | Testing | | Investing |
|---------------------------------|-----------|------------|---------|-------------|-----------|
| 2002 | | | | | |
| Revenue from external customer | NT\$ | 35,800,353 | NT\$ | 9,784,007 | NT\$ - |
| Inter-segment revenues | | 14,291 | | 276,628 | - |
| Interest revenue | | 277,096 | | 12,619 | 90,127 |
| Interest expense | | 1,109,241 | | 183,967 | 639,896 |
| Net interest expense | | (832,145) | | (171,348) | (549,769) |
| Depreciation and amortization | | 5,743,420 | | 5,679,224 | 738 |
| Impairment of long-lived assets | | - | | 1,225,555 | - |
| Segment profit (loss) | | 1,304,013 | | (2,797,405) | (654,314) |
| Segment asset | | 53,667,786 | | 31,338,672 | 8,099,495 |
| Expenditures for segment assets | | 9,054,519 | | 4,393,023 | - |
| Goodwill | | 585,406 | | 4,956,402 | - |
| 2003 | | | | | |
| Revenue from external customer | NT\$ | 45,026,868 | NT\$ | 12,142,396 | NT\$ - |
| Inter-segment revenues | | 90,576 | | 103,249 | - |
| Interest revenue | | 53,678 | | 7,593 | 47,621 |
| Interest expense | | 734,312 | | 147,975 | 429,750 |
| Net interest revenue (expense) | | (680,634) | | (140,382) | (382,129) |
| Depreciation and amortization | | 6,527,475 | | 5,251,832 | 1,890 |
| Segment profit (loss) | | 2,692,936 | | 124,234 | (706,384) |
| Segment asset | | 61,923,742 | | 33,343,057 | 6,578,117 |
| Expenditures for segment assets | | 9,084,929 | | 6,027,521 | - |
| Goodwill | | 481,123 | | 4,115,111 | - |

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2004

| | | | | | | |
|---------------------------------|------|------------|------|------------|------|-------------|
| Revenue from external customer | NT\$ | 64,735,754 | NT\$ | 16,473,924 | NT\$ | - |
| Inter-segment revenues | | 122,131 | | 128,398 | | - |
| Interest revenue | | 52,103 | | 6,445 | | 19,516 |
| Interest expense | | 605,596 | | 132,320 | | 166,910 |
| Net interest revenue (expense) | | (553,493) | | (125,875) | | (147,394) |
| Depreciation and amortization | | 7,648,147 | | 5,881,685 | | - |
| Impairment on assets | | 175,348 | | 1,774,749 | | - |
| Segment profit (loss) | | 5,603,930 | | 691,150 | | (1,737,156) |
| Segment asset | | 75,714,335 | | 35,200,341 | | 4,239,422 |
| Expenditures for segment assets | | 16,756,713 | | 7,769,043 | | - |
| Goodwill | | 868,682 | | 1,977,438 | | - |

2004

| | | | | | | |
|---------------------------------|------|-----------|------|-----------|------|----------|
| Revenue from external customer | US\$ | 2,039,595 | US\$ | 519,027 | US\$ | - |
| Inter-segment revenues | | 3,848 | | 4,045 | | - |
| Interest revenue | | 1,641 | | 203 | | 615 |
| Interest expense | | 19,080 | | 4,169 | | 5,259 |
| Net interest revenue (expense) | | (17,439) | | (3,966) | | (4,644) |
| Depreciation and amortization | | 240,962 | | 185,308 | | - |
| Impairment on assets | | 5,525 | | 55,915 | | - |
| Segment profit (loss) | | 176,557 | | 21,775 | | (54,731) |
| Segment asset | | 2,385,455 | | 1,109,021 | | 133,567 |
| Expenditures for segment assets | | 527,937 | | 244,771 | | - |
| Goodwill | | 27,369 | | 62,301 | | - |

29. SUMMARY OF SIGNIFICANT DIFFERENCES BETWEEN ACCOUNTING PRINCIPLES FOLLOWED BY THE CORPORATION AND GENERALLY ACCEPTED ACCOUNTING PRINCIPLES IN THE UNITED STATES

The Company's consolidated financial statements have been prepared in accordance with ROC GAAP, which differ in the following respects from U.S. GAAP:

a. Pension benefits

The Company adopted U.S. Statement of Financial Accounting Standards ("U.S. SFAS") No. 87, "Accounting for Pensions", on January 1, 1987. ROC SFAS No. 18, which is substantially similar in many aspects to U.S. SFAS No. 87, became effective in 1996 for listed companies in Taiwan. Therefore, pension expense, which includes an amount attributable to the unrecognized net obligation at the date of adoption, differs due to different adoption dates and is therefore adjusted.

b. Short-term investments

Under ROC GAAP, marketable equity securities are carried at the lower of aggregate cost or market, and debt securities are carried at cost, with only unrealized losses recognized. Under U.S. SFAS No. 115,

"Accounting for Certain Investments in Debt and Equity Securities", debt and equity securities that have readily determinable fair values are to be classified as either trading, available-for-sale or held-to-maturity securities. Debt securities for which the Company has the positive intent and ability to hold to maturity are classified as held-to-maturity securities and reported at amortized cost. Debt and equity securities that are bought and traded for short-term profit are classified as trading securities and reported at fair value, with unrealized gains and losses included in earnings. Debt and equity securities not classified as either held-to-maturity or trading are classified as available-for-sale securities and reported at fair value, with unrealized gains and losses excluded from earnings and reported as a separate component of shareholders' equity.

All of the Company's short-term investments are classified as trading securities under U.S. GAAP, with gains and losses recognized currently in income. The unrealized gains included in earnings under U.S. GAAP for the years ended December 31, 2002, 2003 and 2004 were as follows:

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| | Year Ended December 31 | | | |
|------------------------|------------------------|-------|---------|------|
| | 2002 | 2003 | 2004 | |
| | NT\$ | NT\$ | NT\$ | US\$ |
| Unrealized gain (loss) | (38,844) | 3,151 | (1,011) | (32) |

All of the Company's short-term investments in mutual funds, stocks, commercial papers and convertible bonds are held principally for the purpose of selling them in the near term.

c. Bonuses to employees, directors and supervisors

According to ROC regulations and the Articles of Incorporation of the Company, a portion of distributable earnings should be set aside as bonuses to employees, directors and supervisors. Bonuses to directors and supervisors are always paid in cash. However, bonuses to employees may be granted in cash or stock or both. All of these appropriations, including stock bonuses which are valued at par value of NT\$10, are charged against retained earnings under ROC GAAP after such appropriations are formally approved by the shareholders in the following year. Under U.S. GAAP, such bonuses are charged against income earned in the current year. Shares issued as part of these bonuses are recorded at fair market value. Since the amount and form of such bonuses are not usually determinable until the shareholders' board of directors meeting in the subsequent year, the total amount of the aforementioned bonuses is initially accrued based on the management's estimate regarding the amount to be paid based on the Company's Articles of Incorporation. Any difference between the initially accrued amount and the fair market value of any shares issued as bonuses is recognized in the year of approval by the shareholders.

Aside from the aforementioned bonus plan, the Company granted a special stock bonus to employees of NT\$2,506,617 thousand in 2000.

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Employees who received the special stock bonus are required to continue working for the Company for an additional three years. Accordingly, the amount of special stock bonuses is being allocated over three years as additional compensation expense in the consolidated statement of income under U.S. GAAP.

d. Treasury stock

The common shares of the Company that are held by consolidated subsidiaries are, under U.S. GAAP, reflected as treasury stock in the consolidated balance sheet. The capital gain (loss) from sales of treasury stock is deducted from or added to the consolidated balance of capital surplus.

Beginning January 1, 2002, the Company adopted ROC SFAS No. 30, "Accounting for Treasury Stock", which requires shares of parent stock held by subsidiaries to be recorded as treasury stock. Prior to 2002, common shares of the Company held by subsidiaries were presented as a long-term investment in the consolidated balance sheets with the gain or loss on the sale of the treasury stock reflected in the consolidated statements of income.

Prospectively, any unrealized losses that have accumulated prior to the effective date of the new standard will be recorded to the income statement when the corresponding shares are sold under ROC GAAP.

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e. Depreciation of buildings

Under ROC GAAP, the estimated life of a building can be up to 55 years based on ROC practices. For U.S. GAAP purposes, the useful lives of buildings are estimated to be 25 years.

f. Excess of book value on transfer of buildings between consolidated subsidiaries

ASE Test, Inc., a consolidated subsidiary, purchased buildings and facilities from another consolidated subsidiary, ASE Technologies, in 1997. The purchase price of the building from ASE Technologies was based on market value. Such additional payment for the excess of book value of NT\$17,667 thousand was capitalized by ASE Test, Inc. as allowed under ROC GAAP. Under U.S. GAAP, transfers of assets between entities under common control are accounted for using their historic cost.

g. Gain on sales of subsidiary's stock

The carrying value of stock investments in ASE Test by J&R Holding Limited under ROC GAAP is different from that under U.S. GAAP mainly due to the differences in accounting for bonuses to employees, directors and supervisors.

h. Effects of U.S. GAAP adjustments on equity-method investments

The carrying values of equity-method investments and the investment income (loss) accounted for by the equity method in HCDC, HCKC, USI and Inprocomm are reflected in the consolidated financial statements under ROC GAAP. The financial statements of these equity investees

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prepared under ROC GAAP are different from the financial statements of such equity investees prepared under U.S. GAAP mainly due to the differences in accounting for bonuses to employees, directors and supervisors and the depreciation of buildings. Therefore, the investment income (loss) has been adjusted to reflect the differences between ROC GAAP and U.S. GAAP in the investees' financial statements.

i. Impairment of long-lived assets

Under U.S. GAAP, in accordance with U.S. SFAS No. 144, "Accounting for the Impairment or Disposal of Long-Lived Assets", long-lived assets held and used by the Company are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. For purposes of evaluating the recoverability of long-lived assets, the recoverability test is performed by comparing undiscounted net cash flows of the assets against the net book value of the assets. If the recoverability test indicates that an impairment has occurred, the impairment loss is the amount of the asset's net book value in excess of the related fair value. Prior to 2004, there were no requirements related to the evaluation of recoverability of the carrying value of long-lived assets under ROC GAAP, and accordingly, the Company applied the same accounting for impairment of long-lived assets as U.S. SFAS No. 144 for both ROC GAAP and U.S. GAAP reporting. On December 31, 2004, the Company adopted ROC SFAS No.35 "Impairment of Assets", which requires that long-lived assets should be tested for impairment annually.

j. Stock dividends

Under ROC GAAP, stock dividends are recorded at par value with a charge to retained earnings. Under U.S. GAAP, if the ratio of distribution is less than 25 percent of the same class of shares outstanding, the fair value of the shares issued should be charged to retained earnings. The difference for 2003 and 2004 stock dividends would be treated as an additional reduction to retained earnings and an increase to capital surplus amounting to NT\$143 million and NT\$3,285 million (US\$104 million), respectively.

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k. Stock option compensation

Under ROC GAAP, all stock-based compensation for awards granted or modified after January 1, 2004 should be accounted for in conformity with the related Interpretations of ARDF in the ROC. The compensation cost is measured based on the intrinsic value method and accordingly, compensation cost for stock options is measured as the excess, if any, of the quoted market price of the Company's stock at the date of the grant over the amount an employee must pay to acquire the stock. The intrinsic value of the shares is recognized as expense over the requisite service or vesting period. For U.S. GAAP reporting, the Company has elected to follow Accounting Principles Board ("APB") Opinion No. 25, "Accounting for Stock Issued to Employees", which measures compensation expense based on the difference, if any, between the market price of the underlying common shares and the exercise price of the stock option on the date of the grant. The Company is required under U.S. SFAS No. 123, "Accounting for

Stock-based Compensation", to disclose the pro forma information regarding option grants to its employees computed as if the fair value method had been applied.

l. Derivative financial instruments

Under ROC GAAP, the Company accounts for certain derivative instruments as cash flow hedges of certain forecasted transactions and accordingly any gains or losses on such contracts have been recorded to an other component of shareholder's equity. Under U.S. GAAP, accounting for derivative instruments is covered under U.S. SFAS No. 133, as amended, which requires that all entities recognize derivative instruments as assets and liabilities in the statement of financial positions at fair value. If certain conditions are met, including certain rigorous documentation requirements, entities may elect to designate a derivative instrument as a hedge. Under U.S. GAAP, the Company does not apply hedge accounting, and derivatives have historically been, and continue to be, recorded on the consolidated balance sheet at fair value, with the changes in fair values recorded in current period earnings.

m. Goodwill

Under ROC GAAP, the Company amortizes goodwill arising from acquisitions over 10 years. Total amortization expenses of goodwill under ROC GAAP in 2002, 2003 and 2004 are NT\$815,573 thousand, NT\$819,253 thousand and NT\$877,582 thousand (US\$27,649 thousand), respectively. Under U.S. GAAP, SFAS No. 142 requires the Company to review for possible impairment goodwill existing at the date of adoption and perform subsequent impairment tests on at least an annual basis. In addition, existing goodwill and intangible assets must be reassessed and classified consistently in accordance with the criteria set forth in U.S. SFAS No. 141 and U.S. SFAS No. 142. As a result, the Company will no longer amortize goodwill. Definite-lived intangible assets will continue to be amortized over their estimated useful lives. The Company completed its transitional impairment test on January 1, 2002 and found no impairment. The Company performed its annual impairment test during the fourth quarter and determined that the goodwill related to the acquisition of ASE Test and ISE Labs was impaired and recorded a charge of NT\$2,213,045 thousand and NT\$1,337,670 thousand (US\$42,145 thousand) in 2002 and 2004, respectively.

On December 31, 2004, the Company adopted ROC SFAS No.35 "Impairment of Assets" which requires that long-lived assets should be tested for impairment annually. In conjunction of ROC SAFS No.35, the Company recognized on impairment loss of NT\$1,950,097 thousand (US\$61,440 thousand). Under ROC GAAP, the Company will continue to amortize goodwill.

n. Undistributed earnings tax

Undistributed earnings generated after 1997 are subject to a 10% tax in compliance with the Income Tax Law of the ROC. Under ROC GAAP, the 10% tax on undistributed earnings is recorded as an expense at the time shareholders resolve that the Company's earnings shall be retained. Under U.S. GAAP, the Company measured its income tax expense, including the tax effects of temporary differences, using the rate that includes the tax on undistributed earnings.

o. Impairment of long-term investments

ROC GAAP and U.S. GAAP require an assessment of impairment of long-term investments whenever events or circumstances indicate a decline in value may be other than temporary. The criteria for determining whether or not an impairment charge is required are similar under ROC GAAP and U.S. GAAP; however, the methods to measure the amount of impairment may be based on different estimates of fair values depending on the circumstances. When impairment is determined to have occurred, U.S. GAAP generally requires the market price to be used, if available, to determine the fair value of the long-term investment and measure the amount of impairment at the reporting date. Under ROC GAAP, if the market price is deemed to be a result of an inactive market, another measure of fair value may be used. As such, the Company determined an other-than-temporary impairment occurred in one of its long-term investments in an equity-method investee at December 31, 2002. The amount recorded for U.S. GAAP was based on the market price of the stock of the investee at December 31, 2002. The difference resulted in an additional impairment charge for 2002 under U.S. GAAP of NT\$883,620 thousand. No impairment charge was incurred under U.S. GAAP in 2003 as a result of the increase of the market price of the stock of investee companies. On December 31, 2004, the Company adopted ROC SFAS No. 35 and, in accordance with this standard, determined that an impairment charge of NT\$512,000 thousand (US\$16,131 thousand) was required. Under U.S. GAAP, the Company recorded an impairment charge of NT\$1,707,000 thousand (US\$53,781 thousand) in 2004.

The following schedule reconciles net income (loss) and shareholders' equity under ROC GAAP as reported in the consolidated financial statements to the approximate net income (loss) and shareholders' equity amounts as determined under U.S. GAAP, giving effect to adjustments for the differences listed above.

| | Year Ended Dec | |
|---|----------------|-----------|
| | 2002 | 2003 |
| | NT\$ | NT\$ |
| Net income | | |
| Net income based on ROC GAAP | 129,035 | 2,742,796 |
| Adjustments: | | |
| a. Pension benefits | 2,619 | 3,172 |
| b. Short-term investments | (38,844) | 3,151 |
| c. Bonuses to employees, directors and supervisors: | | |
| Accrued regular bonuses | - | (307,500) |
| Special stock bonuses | (835,539) | (417,769) |
| d. Loss from sale of treasury stock | - | 354,787 |
| e. Depreciation of buildings | (99,981) | (101,242) |
| f. Excess of book value of building transferred between consolidated subsidiaries | 432 | 432 |
| h. Effects for U.S. GAAP adjustments on equity-method investees | 198,839 | 186,055 |
| k. Stock option compensation | - | (819,027) |
| l. Derivative financial instruments | - | - |

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| | | |
|---|-------------|-----------|
| m. Goodwill | | |
| Amortization | 815,573 | 819,253 |
| Impairment loss | (2,213,045) | - |
| o. Net impact of impairment loss on equity-method investees | (883,620) | - |
| Effect of U.S. GAAP adjustment on income tax | 10,783 | 10,953 |
| Effect of U.S. GAAP adjustment on minority interest | (160,517) | (123,050) |
| Net decrease in net income | (3,203,300) | (390,785) |
| Net income (loss) based on U.S. GAAP | (3,074,265) | 2,352,011 |
| Earnings (loss) per share | | |
| Basic | (0.85) | 0.63 |
| Diluted | (0.85) | 0.63 |

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| | Year Ended December | |
|---|---------------------|---------------|
| | 2002 | 2003 |
| | NT\$ | NT\$ |
| Net income | | |
| Earnings (loss) per ADS (Note 30(i)) | | |
| Basic | (4.26) | 3.16 |
| Diluted | (4.26) | 3.13 |
| Number of weighted average shares outstanding (Note 30(i)) | | |
| Basic | 3,609,773,466 | 3,721,211,293 |
| Diluted | 3,609,773,466 | 3,755,558,548 |
| Number of ADS | | |
| Basic | 721,954,693 | 744,242,259 |
| Diluted | 721,954,693 | 751,111,710 |
| Shareholders' equity | | |
| Shareholders' equity based on ROC GAAP | 39,430,666 | 45,122,602 |
| Adjustments: | | |
| a. Pension benefits | (36,785) | (33,613) |
| b. Restatement of short-term investments | 2,046 | 5,197 |
| c. Bonuses to employees, directors and supervisors | - | (124,424) |
| d. Treasury stock | | |
| Reversal of unrealized loss | 367,662 | 12,875 |
| Classification of treasury stock | (378,138) | (23,351) |
| e. Effect of U.S. GAAP adjustments on useful life | (276,207) | (377,449) |
| f. Excess of book value of building transferred between related parties | (15,327) | (14,895) |
| g. Restate carrying value of subsidiaries' long-term | | |

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| | | |
|--|-------------|-------------|
| investment | (8,619) | (8,619) |
| h. Effects of the above adjustments on equity-method investments | (73,819) | 112,236 |
| k. Stock option compensation | (908,661) | (908,661) |
| l. Derivative financial instruments | - | - |
| m. Goodwill | | |
| Amortization | 815,573 | 1,634,826 |
| Impairment loss | (2,213,045) | (2,213,045) |
| o. Impairment loss on equity-method investments | (883,620) | (883,620) |
| Effect of U.S. GAAP adjustments on income tax | 39,484 | 50,437 |
| Effect on U.S. GAAP adjustments on minority interest | (144,458) | (267,508) |
| | ----- | ----- |
| Net decrease in shareholders' equity | (3,713,914) | (3,039,614) |
| | ----- | ----- |
| Shareholders' equity based on U.S. GAAP | 35,716,752 | 42,082,988 |
| | ===== | ===== |

Changes in shareholders' equity based on U.S. GAAP:

| | | |
|--|-------------|------------|
| Balance, beginning of year | 37,960,342 | 35,716,752 |
| Net income (loss) for the year | (3,074,265) | 2,352,011 |
| Capital received in advance | - | - |
| Adjustment for common shares issued as bonuses to employees, directors and supervisors | 835,539 | 590,565 |
| Adjustment for stock option compensation | - | 819,027 |
| Translation adjustment for subsidiaries | (126,378) | (287,422) |
| Adjustment from changes in ownership percentage of investees | 102,888 | 57,668 |
| Unrealized loss on long-term investment in shares of stock | 18,626 | - |
| Capital increase through the issuance of common stock through merger | - | - |
| Elimination of long-term investment balance on consolidation | - | - |
| Sale (purchase) of treasury stock | - | 2,850,524 |
| Unrecognized pension cost | - | (16,137) |
| | ----- | ----- |
| Balance, end of year | 35,716,752 | 42,082,988 |
| | ===== | ===== |

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A reconciliation of the significant balance sheet accounts to the approximate amounts as determined under U.S. GAAP is as follows:

| | December 31 | | |
|--|-------------|-----------|-------|
| | 2003 | 2004 | |
| | NT\$ | NT\$ | US\$ |
| Short-term investments | | | |
| As reported | 3,017,779 | 3,194,183 | 100 |
| U.S. GAAP adjustments | | | |
| Restatement of investments to fair value | 5,197 | 4,186 | |
| | ----- | ----- | ----- |
| As adjusted | 3,022,976 | 3,198,369 | 100 |
| | ===== | ===== | ===== |

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| | | | |
|---|-------------|-------------|-------|
| Long-term investments | | | |
| As reported | 6,342,795 | 4,907,363 | 154 |
| U.S. GAAP adjustments | | | |
| Equity investments | 112,236 | 548,855 | 17 |
| Impairment loss | (883,620) | (2,078,620) | (65) |
| | ----- | ----- | ----- |
| As adjusted | 5,571,411 | 3,377,598 | 106 |
| | ===== | ===== | ===== |
| Buildings and improvement | | | |
| As reported | 18,391,271 | 21,023,396 | 662 |
| U.S. GAAP adjustments | | | |
| Effect of U.S. GAAP adjustments on useful life | (377,449) | (476,277) | (15) |
| Excess of book value of building transferred between related parties | (14,895) | (14,463) | |
| | ----- | ----- | ----- |
| As adjusted | 17,998,927 | 20,532,656 | 646 |
| | ===== | ===== | ===== |
| Other assets | | | |
| As reported | 4,587,365 | 7,425,350 | 233 |
| U.S. GAAP adjustments | | | |
| Effect of U.S. GAAP adjustments on income tax | 50,437 | 159,505 | 5 |
| | ----- | ----- | ----- |
| As adjusted | 4,637,802 | 7,584,855 | 238 |
| | ===== | ===== | ===== |
| Goodwill | | | |
| As reported | 4,596,234 | 3,336,376 | 105 |
| U.S. GAAP adjustments | | | |
| Restated carrying value of subsidiaries' long-term investment | (917,280) | (917,280) | (28) |
| Goodwill amortization | 1,634,826 | 2,512,408 | 79 |
| Impairment loss of goodwill | (2,213,045) | (1,600,618) | (50) |
| | ----- | ----- | ----- |
| As adjusted | 3,100,735 | 3,330,886 | 104 |
| | ===== | ===== | ===== |
| Current liabilities | | | |
| As reported | 27,352,851 | 25,203,872 | 794 |
| U.S. GAAP adjustments | | | |
| Bonuses to employees, directors and supervisors | 124,424 | 244,345 | 7 |
| | ----- | ----- | ----- |
| As adjusted | 27,477,275 | 25,448,217 | 801 |
| | ===== | ===== | ===== |
| Other liabilities | | | |
| As reported | 931,154 | 2,500,778 | 78 |
| U.S. GAAP adjustments | | | |
| Pension benefits | 33,613 | 31,045 | |
| Derivative financial instrumens | - | 337,837 | 10 |
| | ----- | ----- | ----- |
| As adjusted | 964,767 | 2,869,660 | 90 |
| | ===== | ===== | ===== |

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As a result of the adjustments presented above, the approximate amounts of total assets based on U.S. GAAP were NT\$111,720,650 thousand, NT\$132,088,572 thousand (US\$4,161,581 thousand) as of December 31, 2003 and 2004, respectively. Total liabilities based on U.S. GAAP were NT\$59,282,103 thousand and NT\$74,847,518 thousand (US\$2,358,145 thousand) as of December 31, 2003 and 2004, respectively.

30. ADDITIONAL DISCLOSURES REQUIRED BY U.S. GAAP

a. Recent accounting pronouncements

In March 2004, the Emerging Issues Task Force ("EITF") reached a consensus on EITF 03-1, "The Meaning of Other-Than-Temporary Impairment and Its Application to Certain Investments". The consensus was that certain quantitative and qualitative disclosures should be required for debt and marketable equity securities classified as available-for-sale or held-to-maturity under SFAS Nos. 115 and 124 that are impaired at the balance sheet date but for which an other-than-temporary impairment has not been recognized. This EITF consensus is effective for fiscal years ending after December 15, 2003. Adoption of the EITF consensus did not result in an impact on the Company's financial position, results of operations or cash flows.

In November 2004, the FASB issued SFAS No. 151, "Inventory Costs - An Amendment of ARB No. 43, Chapter 4." SFAS No. 151 clarifies the accounting that requires abnormal amounts of idle facility expenses, freight, handling costs, and spoilage costs to be recognized as current-period charges. It also requires that allocation of fixed production overhead to the costs of conversion be based on the normal capacity of the production facilities. SFAS No. 151 will be effective for inventory costs incurred on or after July 1, 2005. The Company is currently evaluating the impact of this standard on its consolidated financial statements.

In December 2004, the FASB issued SFAS No. 123R, "Share-Based Payment". This statement is a revision of SFAS No. 123 and supercedes APB Opinion No. 25. This statement establishes standards for the accounting of transactions in which an entity exchanges its equity instruments for goods or services, primarily focusing on the accounting for transactions in which an entity obtains employee services in share-based payment transactions. Entities will be required to measure the cost of employee services received in exchange for an award of equity instruments based on the grant-date fair value of the award (with limited exceptions). That cost will be recognized over the period during which an employee is required to provide service, the requisite service period (usually the vesting period), in exchange for the award. The grant-date fair value of employee share options and similar instruments will be estimated using option-pricing models. If an equity award is modified after the grant date, incremental compensation cost will be recognized in an amount equal to the excess of the fair value of the modified award over the fair value of the original award immediately before the modification. This statement is effective as of the beginning of the

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first fiscal year that begins after January 1, 2006.

Upon adoption, the Company has two application methods to choose from: the modified-prospective transition approach or the modified-retrospective transition approach. Under the modified-prospective transition method the Company would be required to recognize compensation cost for share-based awards to employees based on their grant-date fair value from the beginning of the fiscal period in which the recognition provisions are first applied as well as compensation cost for awards that were granted prior to, but not vested as of the date of adoption. Prior periods remain unchanged and pro forma disclosures previously required by SFAS No. 123 continue to be required. Under the modified-retrospective transition method, the Company would restate prior periods by recognizing compensation cost in the amounts previously reported in the pro forma footnote disclosure under SFAS No. 123. Under this method, the Company is permitted to apply this presentation to all periods presented or to the start of the fiscal year in which SFAS No. 123R is adopted. The Company would follow the same guidelines as in the modified-prospective transition method for awards granted

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subsequent to adoption and those that were granted and not yet vested. The Company has not yet determined which methodology it will adopt but believes that the impact that the adoption of SFAS No. 123R will have on its financial position or results of operations will approximate the magnitude of the stock-based employee compensation cost disclosed in Note 30 (e) pursuant to the disclosure requirements of SFAS No. 148.

In December 2004, the FASB issued SFAS No. 153, "Exchanges of Non-Monetary Assets - An Amendment of APB Opinion No. 29" ("SFAS No. 153"). SFAS No. 153 amends APB Opinion No. 29, "Accounting for Non-Monetary Transactions" (Opinion 29). The amendments made by SFAS No. 153 are based on the principle that exchanges of non-monetary assets should be measured based on the fair value of the assets exchanged. Further, the amendments eliminate the exception for non-monetary exchanges of similar productive assets and replace it with a general exception for exchanges of non-monetary assets that do not have commercial substance. The provisions in SFAS NO. 153 are effective for non-monetary asset exchanges occurring in fiscal periods beginning after June 15, 2005 (July 1, 2005 for the Company). Early application of the SFAS No. 153 is permitted. The provisions of this Statement shall be applied prospectively. The Company does not expect the adoption of SFAS No. 153 to have a material effect on the Company's financial statements or its results of operations.

b. Pension

Set forth below is pension information disclosed in accordance with U.S. SFAS 132 (R):

| | Year Ended December | |
|--|---------------------|------|
| | 2002 | 2003 |
| | NT\$ | NT\$ |

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| | | |
|--|-----------|-----------|
| Components of net periodic benefit cost | | |
| Service cost | 261,810 | 355,624 |
| Interest cost | 43,209 | 54,218 |
| Expected return on plan assets | (23,003) | (19,413) |
| Amortization of prior service cost | 1,557 | 7,989 |
| | ----- | ----- |
| Net periodic benefit cost | 283,573 | 398,418 |
| | ===== | ===== |
| Changes in benefit obligation | | |
| Benefit obligation at beginning of year | 848,888 | 1,443,917 |
| Benefit obligation from acquisition from ASE Japan | - | - |
| Service cost | 261,810 | 355,624 |
| Interest cost | 43,209 | 54,218 |
| Plan amendments | - | 15,247 |
| Actuarial loss | 288,441 | 150,332 |
| Benefits paid | (8,374) | (21,414) |
| Exchange loss (Gain) | 9,943 | (11,953) |
| | ----- | ----- |
| Benefit obligation at end of year | 1,443,917 | 1,985,971 |
| | ===== | ===== |
| Change in plan assets | | |
| Fair value of plan assets at beginning of year | 412,036 | 507,098 |
| Acquire form ASE - Japan | - | - |
| Actual return on plan assets | 10,157 | 7,890 |
| Employer contribution | 85,050 | 113,173 |
| Benefits paid | (145) | (8,803) |
| | ----- | ----- |
| | 507,098 | 619,358 |
| | ----- | ----- |

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| | Year Ended December | |
|--|---------------------|-----------|
| | 2002 | 2003 |
| | NT\$ | NT\$ |
| Funded status | 936,819 | 1,366,613 |
| Unrecognized actuarial gain (loss) | (270,641) | (461,562) |
| Additional pension cost | - | 28,627 |
| | ----- | ----- |
| Net amount recognized (recognized as accrued pension cost) | 666,178 | 933,678 |
| | ===== | ===== |

Actuarial assumptions:

Discount rate
 Rate of compensation increase
 Expected return on plan assets

The Company has no other post-retirement or post-employment benefit plans.

c. Short-term investments

At December 31, 2003 and 2004, certain investments carried at cost under ROC GAAP were restated under U.S. SFAS 115:

| | December 31 | | | | | |
|------------------------|----------------|------------|--------------------------|----------------|------------|-----------|
| | 2003 | | | 2004 | | |
| | Carrying Value | Fair Value | Unrealized Holding Gains | Carrying Value | Fair Value | |
| NT\$ | NT\$ | NT\$ | NT\$ | US\$ | NT\$ | |
| Short-term investments | 3,017,779 | 3,022,976 | 5,197 | 3,194,183 | 100,636 | 3,198,369 |

d. Income tax benefit

| | Year Ended December 31 | | |
|---|------------------------|-------------|-------------|
| | 2002 | 2003 | 2004 |
| | NT\$ | NT\$ | NT\$ |
| Tax benefit | (66,469) | (276,788) | (1,151,107) |
| Net change in deferred income tax assets (liabilities) for the period | (1,261,021) | (1,201,453) | (1,289,101) |
| Income tax on undistributed earnings | 174,478 | 170,281 | 170,281 |
| Adjustment of prior years' income taxes | 1,905 | 18,859 | 18,859 |
| | (1,151,107) | (1,289,101) | (1,289,101) |

A reconciliation between the income tax calculated on pretax financial statement income based on the

statutory tax rate and the income tax expense (benefit) which conforms to U.S. GAAP is as follows:

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| | Year Ended December 31 | |
|---|------------------------|-------------|
| | 2002 | 2003 |
| | NT\$ | NT\$ |
| Tax (benefit) based on pre-tax accounting income (loss) at statutory rate | (1,064,135) | 527,790 |
| Add (less) tax effects of: | | |
| Permanent differences | | |
| Tax-exempt income | | |
| Tax holiday | (52,126) | (481,214) |
| Gain from sale of securities | (16,798) | (10,357) |
| Bonus to employee and directors | 52,221 | 96,519 |
| Other | 65,259 | 7,691 |
| Tax credits | | |
| Utilized | (331,255) | (439,457) |
| Deferred | 139,224 | (1,179,213) |
| Income taxes (10%) on undistributed earnings | 54,598 | 170,281 |
| Adjustment of prior year's income tax | 1,905 | 18,859 |
| Income tax expense (benefit) | (1,151,107) | (1,289,101) |

The abovementioned taxes on pretax accounting income (loss) at the statutory rates for domestic and foreign entities are shown below:

| | Year Ended December 31 | |
|---|------------------------|-----------|
| | 2002 | 2003 |
| | NT\$ | NT\$ |
| Domestic entities in ROC (25% statutory rate) | (282,713) | 674,036 |
| Foreign entities | | |
| ASE Korea Inc. (30.8% statutory rate) | - | 74,806 |
| ASE Japan (40% statutory rate) | - | - |
| ISE Labs, Inc. (33% statutory rate) | (725,744) | (209,911) |
| ASE Test Malaysia (30% statutory rate) | (55,678) | (11,141) |
| | (1,064,135) | 527,790 |

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2003 and 2004 are summarized as follows:

| | 2003 | Decem |
|--|-------------|-------|
| | ----- | ----- |
| | NT\$ | |
| | ----- | |
| Current deferred income tax assets | | |
| Unused tax credits | 1,054,370 | |
| Provision for inventory obsolescence | 50,475 | |
| Provision for doubtful accounts and sales allowance | 33,754 | |
| Unrealized foreign exchange loss | 65,118 | |
| Other | 29,752 | |
| | ----- | |
| | 1,233,469 | |
| Valuation allowance | (8,968) | |
| | ----- | |
| | 1,224,501 | |
| | ===== | |
| Non-current deferred income tax assets (liabilities) | | |
| Unused tax credits | 3,101,039 | |
| Accrued pension costs | 153,924 | |
| Loss carryforward | 483,538 | |
| Investment income | (144,000) | |
| Others | 170,824 | |
| | ----- | |
| | 3,765,325 | |
| Valuation allowance | (1,484,659) | |
| | ----- | |
| | 2,280,666 | |
| | ===== | |
| Non-current deferred income tax liabilities | | |
| Goodwill amortization | (34,674) | |
| | ===== | |

e. Employee stock option plans

ASE Option Plan

Information regarding the Company's employee stock option plans is provided in note 19.

ASE Test Option Plan

ASE Test has six stock option plans, the 1996 Executive Management Option Plan (the "1996 Plan"), the 1997 Option Plan, the 1998 Option Plan, the 1999 Option Plan, the 2000 Option Plan and the 2004 Option Plan. Up to 10,000,000 shares, 3,200,000 shares, 1,600,000 shares, 2,000,000 shares, 12,000,000 shares and 2,500,000 shares have been reserved for issuance under the 1996, 1997, 1998, 1999, 2000 and 2004 Option Plans, respectively.

The 1996, 1997, 1998, 1999, 2000 and 2004 Option Plans granted the following stock options to purchase the ASE Test shares which are exercisable based on a vesting schedule over a period of five years until the expiration of options, to directors, officers and key employees. If any granted shares are forfeited, the shares may be granted again, to the extent of any such forfeiture.

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Each aforementioned option exercise price was equal to the stock's market price on the date of grant. Options granted under the 1996, 1997 and 1998 Option Plans expire 5 years after grant. Options granted under the 1999, 2000 and 2004 Option Plan expire 10 years after grant.

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Further Information regarding the option plans of ASE Test is presented below:

| | Number of Shares | Weighted Average Exercise Price Per Share | Weighted Average Grant Date Fair Values |
|-------------------------------------|---------------------|---|--|
| Beginning balance - January 1, 2002 | 16,308,585 | \$ 11.15 | |
| Option granted | 414,500 | 7.36 | \$ 10.46 ===== |
| Option exercised | (2,420,591) | 8.62 | |
| Option forfeited | (882,051) | 9.88 | |
| Option expired | (89,080) | 13.84 | |
| | ----- | | |
| Ending balance - December 31, 2002 | 13,331,363 | 11.55 | |
| Option granted | 2,000,000 | 12.95 | \$ 12.95 ===== |
| Option exercised | (478,426) | 8.99 | |
| Option forfeited | (568,860) | 13.72 | |
| Option expired | (982,659) | 11.08 | |
| | ----- | | |
| Ending balance - December 31, 2003 | 13,301,418 | 11.80 | |
| Option granted | 260,000 | 6.18 | \$ 6.18 ===== |
| Option exercised | (512,815) | 8.90 | |
| Option forfeited | (417,815) | 11.82 | |
| Option expired | (1,753,340) | 20.00 | |
| | ----- | | |
| Ending balance - December 31, 2004 | 10,877,448 | 10.48 | ===== |

Options outstanding on December 31, 2004 and the related weighted average exercise price and remaining contractual life information are as follows (in U.S. dollars):

| | Outstanding | | Exercisable | |
|---------------------------------|-------------|------------------------------|-------------|-----------------|
| | Shares | Weighted Average Price | Shares | Wei Av Pr |
| Options with exercise price of: | | | | |
| \$ 20-\$25 | 724,800 | \$ 22.70 | 685,700 | \$ |

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| | | | |
|---|------------|-------|-----------|
| \$ 11.5-\$12.95 | 2,232,450 | 12.81 | 341,200 |
| \$ 5.5-\$9 | 7,920,198 | 8.70 | 4,930,822 |
| | ----- | | ----- |
| Options outstanding at December 31, 2004 | 10,877,448 | | 5,957,722 |
| | ===== | | ===== |

Under U.S. GAAP, SFAS 123, "Stock-Based Compensation" effective in 1996, establishes accounting and disclosure requirements using a fair value-based method of accounting for stock-based employee compensation plans. Under SFAS 123, the Company and ASE Test have elected to use the intrinsic value-based method and provide pro forma disclosures of net income and earnings per share as if the fair value accounting provisions of this statement had been adopted.

ASE Test has computed, for pro forma disclosure purposes, the fair value of each option grant, as defined by U.S. SFAS No. 123, using the Black-Scholes option pricing model with the following assumptions:

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| | 2002 | 2003 | 2004 |
|-------------------------|-------------|---------|------------|
| Risk-free interest rate | 2.58%-4.48% | 3.38% | 3.5%-3.88% |
| Expected life | 5 years | 5 years | 5 years |
| Expected volatility | 62.14% | 65.07% | 78.28% |
| Expected dividend | 0% | 0% | 0% |

For purposes of pro forma disclosure, the estimated fair value of the options is amortized to expense over the option rights vesting periods. Had the Company and ASE Test recorded compensation costs based on the estimated grant date fair value, as defined by SFAS No. 123, the Company's net income (loss) under U.S. GAAP would have been reduced to the pro forma amounts below.

| | Ended December 31 | | |
|--|-------------------|-----------|-----------|
| | 2002 | 2003 | 2004 |
| | NT\$ | NT\$ | NT\$ |
| Net income (loss) based on U.S. GAAP | (3,074,265) | 2,352,011 | 4,297,072 |
| Stock - based compensation expense (net of tax) | (331,872) | (220,147) | (375,137) |
| | ----- | ----- | ----- |
| Pro forma net income (loss) | (3,406,137) | 2,131,864 | 3,921,935 |
| | ===== | ===== | ===== |
| Report EPS - Basic | (0.85) | 0.63 | 1.11 |
| | ===== | ===== | ===== |
| - Diluted | (0.85) | 0.63 | 1.00 |
| | ===== | ===== | ===== |
| Pro forma EPS - Basic | (0.94) | 0.57 | 1.00 |
| | ===== | ===== | ===== |

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| | | | |
|-------------------------------|--------|------|-----|
| - Diluted | (0.94) | 0.57 | 0.9 |
| Reported EPS per ADS - Basic | (4.26) | 3.16 | 5.5 |
| - Diluted | (4.26) | 3.13 | 5.4 |
| Pro forma EPS per ADS - Basic | (4.72) | 2.86 | 5.0 |
| - Diluted | (4.72) | 2.84 | 4.9 |

The pro forma amounts reflect compensation expense related to the Company 2004 option plan and ASE Test 1996, 1997, 1998, 1999, 2000 and 2004 option plans granted and vested only. In future years, the annual compensation expense may increase relative to the fair value of the options granted and vested in those future years.

- f. In accordance with U.S. SFAS No. 130, the statement of comprehensive income (loss) for the each years ended December 31, 2002, 2003 and 2004 are presented below:

| | Year Ended December 31 | | |
|--|------------------------|-----------|-----------|
| | 2002 | 2003 | 2004 |
| | NT\$ | NT\$ | NT\$ |
| Net income (loss) based on U.S. GAAP | (3,074,265) | 2,352,011 | 4,297,073 |
| Translation adjustments on subsidiaries, net of income tax benefit of NT\$31,595 thousand, NT\$71,856 thousand and NT\$229,805 thousand in 2002, 2003 and 2004, respectively | (94,783) | (215,566) | (689,415) |

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| | Year Ended December 31 | | |
|-----------------------------|------------------------|-----------|---------|
| | 2002 | 2003 | 2004 |
| | NT\$ | NT\$ | NT\$ |
| Unrecognized pension cost | - | (16,137) | 11,4 |
| Comprehensive income (loss) | (3,169,048) | 2,120,308 | 3,619,0 |

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g. U.S. GAAP cash flow information

The following schedule presents the major captions of cash flows in accordance with SFAS 95:

| | Year Ended December 31 | | |
|---|------------------------|--------------|--------------|
| | 2002 | 2003 | 2004 |
| | NT\$ | NT\$ | NT\$ |
| Cash flows | | | |
| Net cash provided by operating Activities | 11,313,800 | 13,295,953 | 19,419,200 |
| Net cash used in investing activities | (13,719,654) | (18,572,586) | (30,825,300) |
| Net cash provided by financing Activities | 530,491 | 4,221,190 | 9,234,000 |
| Net decrease in cash | (1,875,363) | (1,055,443) | (2,172,000) |
| Cash, beginning of year | 11,770,729 | 9,829,508 | 8,562,425 |
| Effect of exchange rate changes in Cash | (65,858) | (211,640) | (415,200) |
| | 9,829,508 | 8,562,425 | 5,975,125 |

The significant reclassifications for U.S. GAAP cash flow statements pertain to the compensation to directors and supervisors and bonuses to employees is shown in the operating activity under U.S. GAAP (as opposed to financing activities under ROC GAAP).

h. Goodwill

On January 1, 2002, the Company adopted U.S. SFAS No. 142, "Goodwill and Other Intangible Assets", which requires that goodwill no longer be amortized, and instead, be tested for impairment on a periodic basis. In conjunction with the implementation of U.S. SFAS No. 142, the Company completed a goodwill impairment review as of January 1, 2002 using a fair-value based approach in accordance with the provision of the standard and found no impairment.

Based on acquisitions completed as of June 30, 2001, application of the goodwill non-amortization provisions resulted in a decrease in amortization of approximately NT\$815,573 thousand for 2002. The Company completed its annual goodwill impairment test at December 31, 2002 and determined that it had impairment of NT\$2,213,045 thousand relating to the remaining goodwill associated with its acquisition of ASE Test. The Company also completed its annual goodwill impairment test at December 31, 2004 and determined impairment of NT\$1,337,670 thousand (US\$42,145 thousand) of the remaining goodwill associated with its acquisition of ISE Labs. As of December 31, 2004, the Company had goodwill of NT\$3,330,886 thousand (US\$104,943 thousand) primarily from the reporting units of the testing operations.

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Changes in the carrying amount of goodwill for the years ended December 31, 2003 and 2004, by reportable segment, are as follows:

| | Packaging | Testing | Other | |
|-------------------------------------|-----------|-------------|---------|------|
| | NT\$ | NT\$ | NT\$ | NT\$ |
| Balance as of January 1, 2003 | 172,041 | 3,055,015 | - | |
| Translation adjustment | (6,734) | (119,587) | - | |
| Balance as of December 31, 2003 | 165,307 | 2,935,428 | - | |
| Goodwill acquired during the period | 683,774 | 459,893 | 512,818 | |
| Goodwill impairment | - | (1,337,670) | - | |
| Translation adjustment | (4,141) | (83,276) | (1,247) | |
| Balance as of December 31, 2004 | 844,940 | 1,974,375 | 511,571 | |

i. Earnings per share

The following table represents the computation of basic and diluted earnings (loss) per share for each of the years ended at December 31:

| | 2002 | 2003 | |
|---|---------------|---------------|---------|
| | NT\$ | NT\$ | NT\$ |
| Basic EPS | | | |
| Net Income (loss) | (3,074,265) | 2,352,011 | 4,29 |
| Interest, net of tax, paid on convertible bonds | - | - | 16 |
| Diluted EPS | | | |
| Net Income (Loss) | (3,074,265) | 2,352,011 | 4,4 |
| Weighted average shares outstanding | | | |
| Basic | 3,609,773,466 | 3,721,211,293 | 3,855,9 |
| Effect of dilutive Securities | - | 34,347,255 | 254,1 |
| Diluted | 3,609,773,466 | 3,755,558,548 | 4,110,1 |

Diluted earnings per share for the year ended December 31, 2004 were calculated as follows:

The denominator was the weighted average number of outstanding common shares which equaled 4,110,103,367 shares in 2004 adjusted for the effect of the ASE stock options and convertible bonds in 2004.

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The denominator used for purposes of calculating earnings (loss) per ADS was the above-mentioned weighted average outstanding shares divided by five (one ADS represents five common shares). The numerator was the same as mentioned in the above EPS calculation.

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ADVANCED SEMICONDUCTOR ENGINEERING, INC. AND ITS SUBSIDIARIES

SCHEDULE I

| Contract | Amount (in Million) | Strike Price | Maturity Date |
|-------------------------|------------------------|--------------|---------------|
| ASE | | | |
| Buy NTD Call / USD Put | US\$157 | 32 | 2005.03.25 |
| Sell NTD Call / USD Put | 157 | 31.37 | 2005.08.25 |
| Buy USD Call / NTD Put | 43 | 33.95 | 2008.09.25 |
| Buy USD Put/NTD Call | 5 | Note 1 | 2005.01.05 |
| Sell USD Call/NTD Put | 5 | Note 2 | 2005.01.05 |
| Buy USD Put/JPY Call | 1 | Note 3 | 2005.01.06 |
| Sell USD Call/JPY Put | 2 | Note 4 | 2005.01.06 |
| Buy USD Put/NTD Call | 6 | Note 5 | 2005.01.06 |
| Sell USD Call/NTD Put | 12 | Note 6 | 2005.01.06 |
| Sell USD Call/JPY Put | 5 | Note 7 | 2005.01.05 |
| Sell USD Call/JPY Put | 5 | Note 7 | 2005.02.03 |
| Sell USD Call/JPY Put | 5 | Note 7 | 2005.03.03 |
| Sell USD Call/JPY Put | 5 | Note 7 | 2005.04.05 |
| Buy USD Put/JPY Call | 0.6 | Note 8 | 2005.01.12 |
| Sell USD Call/JPY Put | 1 | Note 9 | 2005.01.12 |
| Buy USD Put/JPY Call | 1 | Note 10 | 2005.01.14 |
| Sell USD Call/JPY Put | 1.75 | Note 11 | 2005.01.14 |
| Buy USD Put/NTD Call | 5 | Note 1 | 2005.02.03 |
| Sell USD Call/NTD Put | 5 | Note 2 | 2005.02.03 |
| Buy USD Put/NTD Call | 6 | Note 5 | 2005.02.04 |
| Sell USD Call/NTD Put | 12 | Note 6 | 2005.02.04 |
| Buy USD Put/JPY Call | 1 | Note 3 | 2005.02.09 |
| Sell USD Call/JPY Put | 2 | Note 4 | 2005.02.09 |
| Buy USD Put/NTD Call | 5 | Note 1 | 2005.03.03 |
| Sell USD Call/NTD Put | 5 | Note 2 | 2005.03.03 |
| Buy USD Put/JPY Call | 1 | Note 3 | 2005.03.04 |
| Sell USD Call/JPY Put | 2 | Note 4 | 2005.03.04 |
| Buy USD Put/NTD Call | 6 | Note 5 | 2005.03.08 |
| Sell USD Call/NTD Put | 12 | Note 6 | 2005.03.08 |
| Buy USD Put/NTD Call | 5 | Note 1 | 2005.04.05 |
| Sell USD Call/NTD Put | 5 | Note 2 | 2005.04.05 |
| Buy USD Put/JPY Call | 1 | Note 3 | 2005.04.06 |
| Sell USD Call/JPY Put | 2 | Note 4 | 2005.04.06 |
| Buy USD Put/NTD Call | 6 | Note 5 | 2005.04.07 |
| Sell USD Call/NTD Put | 12 | Note 6 | 2005.04.07 |
| Buy USD Put/JPY Call | 1 | Note 3 | 2005.05.05 |
| Sell USD Call/JPY Put | 2 | Note 4 | 2005.05.05 |
| Buy USD Put/NTD Call | 6 | Note 5 | 2005.05.06 |
| Sell USD Call/NTD Put | 12 | Note 6 | 2005.05.06 |
| Buy USD Put/NTD Call | 6 | Note 5 | 2005.06.08 |
| Sell USD Call/NTD Put | 12 | Note 6 | 2005.06.08 |

Strike price is as follows:

Note 1: If 32.10