TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD Form 6-K April 27, 2005

# SECURITIES AND EXCHANGE COMMISSION Washington, DC 20549

## FORM 6-K

## REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16 OR 15d-16 OF THE SECURITIES EXCHANGE ACT OF 1934

For the month of April 2005

## Taiwan Semiconductor Manufacturing Company Ltd.

(Translation of Registrant s Name Into English)

No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park, Hsin-Chu, Taiwan

(Address of Principal Executive Offices)

	(Indicate by check mark	whether the registrant file	s or will file annual	reports under o	cover of Form	20-F or	Form
40	-F.)						

	Form 20-F þ	Form 40-F o
•	•	ng the information contained in this form is also thereby e 12g3-2(b) under the Securities Exchange Act of 1934.
	Yes o	No þ
(If Yes is marked, indicated below t	the file number assigned	I to the registrant in connection with Rule 12g3-2(b): 82

#### FOR IMMEDIATE RELEASE

1Q05

Quarterly Management Report April 26, 2005

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Topics in This Report

Revenue Analysis

**Utilization & Capacity** 

Profit & Expense Analysis

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Cash Flow & CapEx

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## **Operating Results Review:**

Summary:

(Amount in NT\$ billion except noted otherwise)	1Q05	4Q04	1Q04	QoQ	YoY
EPS (NT\$ per com. shr.)	0.72	0.96	0.80	-25.3%	-10.0%
(US\$ per ADR unit)	0.11	0.15	0.14		
Net Sales	55.65	63.87	57.51	-12.9%	-3.2%
Gross Profit	21.65	27.15	22.73	-20.3%	-4.8%

Operating Expense	(5.57)	(6.12)	(5.19)	-9.0%	7.4%
Non-Operating Items	0.19	1.07	0.90	-82.3%	-78.9%
Net Income	16.82	22.18	18.79	-24.2%	-10.5%
Wafers Shipped (kpcs 8 inch-equiv.) Capacity Utilization	1,113 78%	1,220 88%	1,172 105%	-8.8%	-5.1%
Net Profit Margin	30.2%	34.7%	32.7%		
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#### Remarks:

The first quarter EPS of NT\$0.72 represents a 25.3% decrease compared with 4Q04. The unconsolidated operating results of 1Q05 are summarized below:

Net sales declined 12.9% to NT\$55.7 billion compared with NT\$63.9 billion in the fourth quarter of 2004. The decrease mainly reflected an 8.8% decrease in wafer shipments and a 4.4% depreciation of the US dollar against local currency, while the wafer average selling price (ASP) remained at the same level as in the fourth quarter last year.

Gross profit decreased to NT\$21.6 billion, representing a 20.3% decline from the previous quarter. Gross margin declined to 38.9% from 42.5% in 4Q04 due mainly to lower levels of wafer output and an unfavorable exchange rate movement.

Operating expenses decreased to NT\$5.6 billion, representing 10% of revenue. The decrease was the result of lower expenses of R&D and SG&A.

The combined result from non-operating income and long-term investment was a gain of NT\$188 million, which was NT\$878 million lower than the NT\$1,066 million registered in the previous quarter.

Income before tax declined 26.4% sequentially to NT\$16.3 billion. The Company s provision for tax expenses of NT\$2.1 billion was more than offset by an investment tax credit of NT\$2.6 billion. TSMC s 1Q05 net income was NT\$16.8 billion with a net margin of 30.2%.

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## I. Revenue Analysis

## I 1. Wafer Sales Analysis

By Application Computer Communication Consumer Industrial/Others Memory	1Q05	4Q04	1Q04
	34%	35%	32%
	41%	41%	45%
	17%	16%	17%
	6%	6%	4%
	2%	2%	2%
By Technology	1Q05	4Q04	1Q04
0.13um-	45%	36%	20%
0.15/0.18um	31%	34%	44%
0.25um	12%	14%	18%
0.35um	6%	9%	11%
0.50um+	6%	7%	7%
By Customer Type Fabless IDM System	1Q05	4Q04	1Q04
	68%	66%	69%
	31%	33%	30%
	1%	1%	1%
By Geography North America Asia Pacific Europe Japan	1Q05	4Q04	1Q04
	79%	75%	74%
	8%	10%	13%
	6%	7%	7%
	7%	8%	6%

#### Revenue Analysis:

Net sales decreased 12.9% to NT\$55.7 billion compared with NT\$63.9 billion in the fourth quarter 2004. The decrease in first quarter revenue mainly resulted from an 8.8% decrease in wafer shipments and a 4.4% depreciation of the US dollar against local currency. Wafer average selling price (ASP) remained at the same level as in 4Q04.

Revenues declined across computer, communication, and consumer applications in this quarter due mainly to continuing inventory digestion in the industry and low seasonality. Revenue mix by application remained similar to



Demand from advanced technologies defined as 0.13-micron and below strengthened further amid a relatively weak business environment in 1Q05. Revenue contribution from advanced process technologies increased to 45% of total wafer sales from 36% previously. Sales from 90nm accounted for 4% of total wafer sales.

IDM accounted for 31% of wafer sales during the quarter, compared to 33% in the previous quarter. Geographically, North America accounted for 79% of wafer sales, compared to 75% previously.

#### ASP Trend:

ASP remained at the same level as in 4Q04. This is the result of product mix improvement, offset by price erosion.

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## II. Utilization & Capacity

#### **Utilization Rate:**

Overall capacity utilization decreased to 78% in this quarter from 88% in 4Q04 due mainly to the soft demand that resulted from customers inventory digestion and low seasonality.

## II 2. Capacity

	1Q05	1Q05	2Q05
Fab / (Wafer size)	( <b>Est.</b> )	(Act.)	<b>(Est.)</b>
Fab-2 $(6'')^1$	238	238	249
Fab-3 (8")	234	234	245
Fab-5 (8")	119	119	125
Fab-6 (8")	203	203	214
Fab-7 (8")	36	36	39
Fab-8 (8")	215	222	217
Fab-12 $(12")^2$	85	85	103
Fab-14 $(12")^2$	18	18	36
TSMC owned capacity			
8"-equivalent Kpcs	1,172	1,180	1,292
WaferTech (8")	95	95	96
SSMC (8")	41	41	42
TSMC (Shanghai) (8")	9	9	22
Total TSMC managed			
8"-equivalent Kpcs	1,317	1,324	1,451

Note: 1. Figures represent number of 6" wafers. Conversion to 8"-equivalent wafers is by dividing this number by 1.78

2. Figures represent number of 12" wafers. Conversion to 8"-equivalent wafers is by multiplying this number by 2.25

## Capacity:

Total TSMC managed capacity in 1Q05 was 1,324K 8-inch equivalent wafers, slightly higher than the 1,317K wafers forecasted in our 4Q04 quarterly management report. The difference was a result of the rescheduling of annual maintenance for Fab 8 to 2Q05 from 1Q05.

TSMC managed capacity in 2Q05 is estimated to increase to 1,451K wafers, representing a 9.6% sequential growth. The newly added capacity in 2Q05 will be mainly for the continuing ramp up of Fab 12 and 14, totaling 36K 12-inch wafers.

Overall installed capacity for year 2005 is expected to reach 5.97 million 8-inch equivalent wafers, a 25% year-on-year growth.

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## III. Profit & Expense Analysis

#### III 1. Gross Profit Analysis

(Amount: NT\$ billion)  COGS  Depreciation Other MEC Cost	1Q05 34.0 15.2	<b>4Q04 36.7</b> 14.9	1Q04 34.8 13.4
Other MFG Cost  Gross Profit	18.8	21.8	21.4
	<b>21.6</b>	27.2	22.7
Gross Margin - TSMC - TSMC w/o affiliates	38.9%	42.5%	39.5%
	42.1%	47.8%	44.3%

## Gross Profit Analysis:

Gross profit decreased 20.3% from the previous quarter to NT\$21.6 billion. Gross margin declined to 38.9% from 42.5% in 4Q04 mainly due to lower levels of wafer output and an unfavorable exchange rate.

During the quarter, the gross margin from TSMC s own fab manufacturing activities declined to 42.1% from 47.8% in 4004.

#### III 2. Operating Expense Analysis

(Amount: NT\$ billion)	1Q05	4Q04	1Q04
Total Operating Exp.	<b>5.57</b>	6.12	5.19
SG&A	2.22	2.56	2.33
Research & Development	3.35	3.57	2.86

#### **Operating Expenses:**

Operating expenses decreased to NT\$5.6 billion in this quarter. As Fab 14 continuingly increased commercial production volume, fewer engineering wafers were required and, as a result, R&D expenditures were sequentially lower. As Fab 12 (Phase II) commenced commercial production, it stopped incurring opening expenses, which led to lower SG&A expenditures. During this quarter, operating expenses represented 10% of net sales, compared to last quarter s 9.6%.

## **III 3. Non-Operating Items**

(Amount: NT\$ million)	1Q05	4Q04	1Q04
Non-Operating Income/(Exp.)	386	457	92
Net Interest Income/(Exp.)	197	227	(74)
Other Non-Operating	190	230	166
L-T Investments	(198)	609	803
WaferTech*	195	891	817
SSMC	104	31	145
Vanguard	293	423	323
TSMC (Shanghai)	(280)	(359)	0
Miscellaneous	(510)	(377)	(483)
<b>Total Non-Operating Items</b>	188	1,066	895

<sup>\*</sup> Operation results only; does not include amortization of impaired assets.

## **Non-Operating Items:**

Combined result from non-operating income and long-term investment decreased to a gain of NT\$188 million from NT\$1,066 million in the previous quarter.

During the quarter, non-operating income decreased to NT\$386 million from last quarter s NT\$457 million. This decrease was due mainly to higher revaluation losses of short-term investments in marketable securities and foreign exchange losses from hedging activities, offset partially by the receipt of payment from the settlement of the lawsuit against SMIC.

Long-term investment incurred a loss of NT\$198 million in this quarter, compared to a gain of NT\$609 million in 4Q04. The differences were mainly attributable to lower levels of profit at WaferTech and VIS, offset partially by the improvement in SSMC and TSMC (Shanghai).

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#### IV. Financial Condition Review

## IV 1. Liquidity Analysis

(Amount: NT\$ million)	1Q05	4Q04	1Q04
Cash & S-T Investments	111.9	118.5	126.3
Accounts Receivable Trade	22.4	27.2	27.0
Inventory	13.4	14.2	11.0
<b>Total Current Assets</b>	159.7	173.7	175.7
Accounts Payable	19.1	40.8	25.3
Accrued Liabilities and Others	18.8	19.8	12.8
Total Current Liabilities	37.9	60.6	38.1
Current Ratio (x)	4.2	2.9	4.6
Net Working Capital	121.9	113.0	137.6

## Liquidity Analysis:

Total current assets were NT\$13.9 billion lower on a sequential basis. The decrease was mainly attributable to lower cash & short-term investments and accounts receivable.

Total current liabilities were NT\$22.7 billion lower sequentially, due mainly to the payment of accounts payable related to production equipment purchased previously.

As a result, net working capital increased to NT\$121.9 billion and current ratio increased to 4.2x.

#### Receivable/Inventory Days Trend:

Days of receivables improved to 42 days compared to 45 days in 4Q04, reflecting accelerated collection of accounts receivable during 1Q05.

Days of Inventory increased to 42 days as compared to 41 days in the previous quarter. The increase was due mainly to higher portion of 12-inch wafer production that took place during 1Q05, which carries higher values for WIP.

#### IV 3. Debt Service

(Amount: NT\$ billion)	1Q05	4Q04	1Q04
Cash & S-T Investments	111.9	118.5	126.3

Interest-Bearing Debt	30.0	30.0	35.0
Net Cash Reserves	81.9	88.5	91.3

## Debt Service:

Net cash reserves, defined as the excess of cash and short-term investments over interest-bearing debt, decreased by NT\$6.6 billion to NT\$81.9 billion in 1Q05. The decrease reflected lower levels of cash & short-term investments in this quarter.

Interest-bearing debt remained at the same level of NT\$30 billion as in the previous quarter.

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## V. Cash Flow & CapEx

## V 1. Cash Flow Analysis

(Amount: NT\$ billion)	1Q05	4Q04	1Q04
Net Income	16.8	22.2	18.8
Depreciation & Amortization	16.7	16.6	15.1
Other Op Sources/(Uses)	2.5	(2.1)	(1.2)
Total Op Sources/(Uses)	36.0	36.7	32.7
Capital Expenditure	(38.2)	(20.5)	(16.4)
Short Term Investment	1.3	(6.9)	(7.3)
Long Term Investment	(4.3)	(17.0)	(0.2)
Other Investing Sources/(Uses)	(0.2)	(0.0)	0.0
Net Investing Sources/(Uses)	(41.3)	(44.4)	(23.9)
Treasury Stock	0.0	0.0	(0.5)
Payment on long-term bonds payable	0.0	(5.0)	0.0
Other Financing Sources/(Uses)	(0.0)	(0.1)	(0.1)
Net Financing Sources/(Uses)	(0.0)	(5.1)	(0.6)
Net Cash Position Changes	(5.3)	(12.8)	8.2
Cash Balance	60.2	65.5	106.5

## Summary of Cash Flow:

During this quarter, TSMC generated NT\$36.0 billion operating cash inflow, mainly from net income of NT\$16.8 billion and depreciation & amortization of NT\$16.7 billion.

Net cash used in investing activities totaled NT\$41.3 billion, including (i) capital spending of NT\$38.2 billion, (ii) long-term investment of NT\$4.3 billion, comprising primarily a NT\$3.0 billion (US\$95 million) capital injection to TSMC (Shanghai), and a NT\$1.4 billion net increase in government bonds.

There was no material financing activity during this quarter.

As a result, TSMC ended the quarter with a cash balance of NT\$60.2 billion, NT\$5.3 billion lower than in 4Q04.

## Operating Cash Flow Trend:

Operating cash flow of NT\$36.0 billion was slightly lower than the previous quarter, due mainly to NT\$5.4 billion lower net income in 1Q05, ameliorated primarily by a decline in accounts receivable.

## V 3. Capital Expenditure

TSMC	US\$ 1,210 m	
TSMC (Shanghai)	US\$ 97 m	
WaferTech	US\$ 1 m	
TSMC Group	US\$ 1,308 m	

## Capital Spending:

Capital expenditures for TSMC alone during the quarter totaled US\$1.2 billion. Most of the spending was for 12-inch production equipment.

Capital spending was US\$97 million for TSMC (Shanghai), and US\$1 million for WaferTech.

For year 2005, total capital expenditure for TSMC as a group is expected to be in the range of US\$2.5 billion to US\$2.7 billion, unchanged from our previous guidance given in January 2005.

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VI. Recap of Recent Important Events & Announcements

TSMC Board of Directors Proposes NT\$2.0 Cash Dividend and 5% Stock Dividend for 2004 Profit Distribution ( 2005/02/22 )

TSMC Appoints Mr. Jason Chen as Vice President of Corporate