

MICROCHIP TECHNOLOGY INC

Form 10-K

May 18, 2018

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-K

(Mark One)

☒ Annual Report pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

☒ For the fiscal year ended March 31, 2018

OR

☐ Transition report pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

☐ For the transition period from _____ to _____

Commission File Number: 0-21184

MICROCHIP TECHNOLOGY INCORPORATED

(Exact Name of Registrant as Specified in Its Charter)

Delaware

86-0629024

(State or Other Jurisdiction of Incorporation or Organization) (IRS Employer Identification No.)

2355 W. Chandler Blvd., Chandler, AZ 85224-6199

(Address of Principal Executive Offices, Including Zip Code)

(480) 792-7200

(Registrant's Telephone Number, Including Area Code)

Securities registered pursuant to Section 12(b) of the Act:

Title of Each Class	Name of Each Exchange on Which Registered
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Common Stock, \$0.001 Par Value Per Share	NASDAQ® Global Market
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Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the Registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities

Act. ☒ Yes ☐ No

Indicate by check mark if the Registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the

Act. ☐ Yes ☒ No

Indicate by checkmark whether the Registrant: (1) has filed all reports 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 whether the registrant has submitted electronically and posted on its corporate Website, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§229.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). ☒ Yes ☐ No

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Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K (§232.405 of this chapter) is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of Form 10-K or any amendment to this Form 10-K. ☐

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act:

Large accelerated filer ☒ Accelerated filer ☐ Non-accelerated filer ☐ (Do not check if a smaller reporting company)
Smaller reporting company ☐
Emerging growth company ☐

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). ☐ Yes ☒ No

Aggregate market value of the voting and non-voting common equity held by non-affiliates as of September 30, 2017 based upon the closing price of the common stock as reported by the NASDAQ Global Market on such date was approximately \$20,543,563,116.

Number of shares of Common Stock, \$0.001 par value, outstanding as of May 9, 2018: 235,036,703 shares

Documents Incorporated by Reference

Document	Part of Form
	10-K
Proxy Statement for the 2018 Annual Meeting of Stockholders	III

MICROCHIP TECHNOLOGY INCORPORATED AND SUBSIDIARIES

FORM 10-K

TABLE OF CONTENTS

	Page
PART I	
<u>Item 1. Business</u>	<u>3</u>
<u>Item 1A. Risk Factors</u>	<u>13</u>
<u>Item 1B. Unresolved Staff Comments</u>	<u>27</u>
<u>Item 2. Properties</u>	<u>28</u>
<u>Item 3. Legal Proceedings</u>	<u>28</u>
<u>Item 4. Mine Safety Disclosures</u>	<u>28</u>
PART II	
<u>Item 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities</u>	<u>29</u>
<u>Item 6. Selected Financial Data</u>	<u>31</u>
<u>Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations</u>	<u>33</u>
<u>Item 7A. Quantitative and Qualitative Disclosures About Market Risk</u>	<u>53</u>
<u>Item 8. Financial Statements and Supplementary Data</u>	<u>54</u>
<u>Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure</u>	<u>54</u>
<u>Item 9A. Controls and Procedures</u>	<u>54</u>
<u>Item 9B. Other Information</u>	<u>55</u>
PART III	
<u>Item 10. Directors, Executive Officers and Corporate Governance</u>	<u>56</u>
<u>Item 11. Executive Compensation</u>	<u>56</u>
<u>Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters</u>	<u>56</u>
<u>Item 13. Certain Relationships and Related Transactions, and Director Independence</u>	<u>57</u>
<u>Item 14. Principal Accountant Fees and Services</u>	<u>57</u>
PART IV	
<u>Item 15. Exhibits and Financial Statement Schedules</u>	<u>58</u>
<u>Item 16. Form 10-K Summary</u>	<u>59</u>
<u>Signatures</u>	<u>60</u>
<u>Power of Attorney</u>	<u>61</u>

Table of Contents

PART I

This Form 10-K contains certain forward-looking statements that involve risks and uncertainties, including statements regarding our strategy and future financial performance and those statements identified under "Item 7 – Management's Discussion and Analysis of Financial Condition and Results of Operations – Note Regarding Forward-looking Statements." Our actual results could differ materially from the results described in these forward-looking statements as a result of certain factors including those set forth under "Item 1A – Risk Factors," beginning below at page 13, and elsewhere in this Form 10-K. Although we believe that the matters reflected in the forward-looking statements are reasonable, we cannot guarantee future results, levels of activity, performance or achievements. You should not place undue reliance on these forward-looking statements. We disclaim any obligation to update information contained in any forward-looking statement. In this Form 10-K, "we," "us," "our," and "Microchip" each refers to Microchip Technology Incorporated and its subsidiaries.

Item 1. BUSINESS

We develop, manufacture and sell specialized semiconductor products used by our customers for a wide variety of embedded control applications. Our product portfolio comprises general purpose and specialized 8-bit, 16-bit, and 32-bit microcontrollers, 32-bit microprocessors, a broad spectrum of high-performance linear, mixed-signal, power management, thermal management, radio frequency (RF), timing, safety, security, wired connectivity and wireless connectivity devices, as well as serial Electrically Erasable Programmable Read Only Memory (EEPROM), Serial Flash memories, Parallel Flash memories and serial Static Random Access Memory (SRAM). We also license Flash-IP solutions that are incorporated in a broad range of products. Our synergistic product portfolio targets thousands of applications worldwide and a growing demand for high-performance designs in the automotive, communications, computing, consumer and industrial control markets. Our quality systems are ISO/TS16949 (2009 version) certified.

Microchip Technology Incorporated was incorporated in Delaware in 1989. Our executive offices are located at 2355 West Chandler Boulevard, Chandler, Arizona 85224-6199 and our telephone number is (480) 792-7200.

Our Internet address is www.microchip.com. We post the following filings on our website as soon as reasonably practicable after they are electronically filed with or furnished to the Securities and Exchange Commission:

- our annual report on Form 10-K
- our quarterly reports on Form 10-Q
- our current reports on Form 8-K
- our proxy statement
- any amendments to the above-listed reports filed or furnished pursuant to Sections 13(a) or 15(d) of the Securities Exchange Act of 1934

All of our SEC filings on our website are available free of charge. The information on our website is not incorporated into this Form 10-K.

Recent Developments

On March 1, 2018, we entered into a definitive agreement (the "Merger Agreement") to acquire Microsemi Corporation ("Microsemi") for \$68.78 per share in cash. The acquisition price represents a total equity value of approximately \$8.35 billion, and a total enterprise value of about \$10.15 billion, after accounting for Microsemi's cash and investments, net of debt, on its balance sheet at December 31, 2017. Microsemi offers a comprehensive portfolio of semiconductor and system solutions for aerospace and defense, communications, data center and industrial markets.

Microsemi is headquartered in Aliso Viejo, California, and has approximately 4,800 employees globally. Refer to Note 23 to our consolidated financial statements for additional details.

The Board of Directors of each of Microchip and Microsemi have unanimously approved the Merger and the Merger Agreement. The transaction is subject to customary closing conditions including regulatory approvals and approval by Microsemi stockholders. There is no financing condition to the closing of the Merger. Assuming the timely receipt of the aforementioned regulatory approvals and the satisfaction of the other closing conditions, we anticipate that the merger will be completed in late May/early June 2018.

Table of Contents

We estimate that the total amount of funds necessary to complete the Merger and the other transactions contemplated by the Merger Agreement will be approximately \$10.15 billion, which will be funded through a combination of:

- the incurrence of loans under a new term loan facility or other debt financing;
- revolving loans under Microchip's amended and restated credit agreement; and
- Microchip's and Microsemi's cash and cash equivalents on hand at closing.

On March 1, 2018, in connection with our execution of the Merger Agreement, we entered into a Commitment Letter with JPMorgan Chase Bank, N.A. ("JPMorgan"), pursuant to which JPMorgan committed to provide to Microchip, among other things, (1) a senior secured term loan facility in an aggregate principal amount of up to \$5.0 billion and (2) a 364-day secured bridge facility in an aggregate principal amount of up to \$625.0 million, in each case, subject to the execution of definitive documentation and customary closing conditions. JPMorgan's commitments in respect of the Term Loan Facility will be reduced in the event Microchip's raises certain other debt or equity financing.

The Merger Agreement contains customary representations, warranties and covenants of Microchip, Microsemi, and Merger Sub, including among others, (i) covenants by Microsemi concerning the conduct of its business in the ordinary course consistent with past practice during the interim period between the execution of the Merger Agreement and the consummation of the Merger, (ii) a covenant by Microsemi that, subject to certain exceptions, the Board of Directors of Microsemi will recommend to its stockholders adoption of the Merger Agreement, and (iii) a covenant that Microsemi will not solicit, initiate or knowingly encourage, facilitate or induce the making, submission or announcement of an Acquisition Proposal (as defined in the Merger Agreement) or the making of any inquiry, offer or proposal that would reasonably be expected to lead to an Acquisition Proposal. The Merger Agreement contains certain termination rights for both Microchip and Microsemi and further provides that upon termination of the Merger Agreement under specified circumstances (including termination by Microsemi to accept a superior proposal), Microsemi may be required to pay Microchip a termination fee of \$290 million. The Merger Agreement also contains a provision requiring Microsemi to reimburse Microchip for up to \$35 million of its expenses incurred in connection with the Merger if the approval of the Merger by the holders of a majority of the outstanding shares of Microsemi Common Stock is not obtained at a meeting called for that purpose.

Industry Background

Competitive pressures require manufacturers of a wide variety of products to expand product functionality and provide differentiation while maintaining or reducing cost. To address these requirements, manufacturers often use integrated circuit-based embedded control systems that enable them to:

- differentiate their products
- replace less efficient electromechanical control devices
- reduce the number of components in their system
- add product functionality
- reduce the system level energy consumption
- make systems safer to operate
- decrease time to market for their products
- significantly reduce product cost

Embedded control systems have been incorporated into thousands of products and subassemblies in a wide variety of applications and markets worldwide, including:

- automotive comfort, safety, information and entertainment applications

remote control devices
handheld tools
large and small home appliances
portable computers and accessories
robotics
energy monitoring
thermostats
motor controls
security systems
smoke and carbon monoxide detectors
consumer electronics
power supplies

Table of Contents

• applications needing touch buttons, touch screens and graphical user interfaces
• medical instruments

Embedded control systems typically incorporate a microcontroller as the principal active, and sometimes sole, component. A microcontroller is a self-contained computer-on-a-chip consisting of a central processing unit, often with on-board non-volatile program memory for program storage, random access memory for data storage and various analog and digital input/output peripheral capabilities. In addition to the microcontroller, a complete embedded control system incorporates application-specific software, various analog, mixed-signal, timing and connectivity products and non-volatile memory components such as EEPROMs and Flash memory.

The increasing demand for embedded control has made the market for microcontrollers a significant segment of the semiconductor market at \$18.0 billion in calendar year 2017. Microcontrollers are primarily available in 8-bit through 32-bit architectures. 8-bit microcontrollers remain very cost-effective for a wide range of high-volume embedded control applications and, as a result, continue to represent a significant portion of the overall microcontroller market. 16-bit and 32-bit microcontrollers provide higher performance and functionality, and are generally found in more complex embedded control applications. The analog and mixed-signal segment of the semiconductor market is very large at over \$50 billion in calendar year 2017, and this market is fragmented into a large number of sub segments.

Our Products

Our strategic focus is on embedded control solutions, including:

• general purpose and specialized microcontrollers and 32-bit microprocessors
• development tools and related software
• analog, interface, mixed signal, timing and security products
• wired and wireless connectivity products
• memory products
• technology licensing

We provide highly cost-effective embedded control solutions that also offer the advantages of small size, high performance, extreme low power usage, wide voltage range operation, mixed signal integration, and ease of development, thus enabling timely and cost-effective integration of our solutions by our customers in their end products.

Microcontrollers

We offer a broad family of proprietary general purpose microcontroller products marketed under multiple brand names. We believe that our microcontroller product families provide leading function and performance characteristics in the worldwide microcontroller market. We have shipped over 22 billion microcontrollers to customers worldwide since 1990. We also offer specialized microcontrollers for automotive networking, computing, lighting, power supplies, motor control, human machine interface, security, wired connectivity and wireless connectivity. With almost 3,000 microcontrollers in our product portfolio, we target the 8-bit, 16-bit, and 32-bit microcontroller and 32-bit embedded microprocessor markets.

We have used our manufacturing experience and design and process technology to bring additional enhancements and manufacturing efficiencies to the development and production of our microcontroller products. Our extensive experience base has enabled us to develop microcontrollers with rich analog and digital peripherals, that have a small footprint, extreme low power consumption and are re-programmable, enabling us to be a leader in microcontroller

product offerings.

Development Tools

We offer a comprehensive set of low-cost and easy-to-learn application development tools. These tools enable system designers to quickly and easily program our microcontroller products for specific applications and, we believe, they are an important factor for facilitating design wins.

Our family of development tools for our microcontroller products range from entry-level systems, which include an assembler and programmer or in-circuit debugging hardware, to fully configured systems that provide in-circuit emulation capability. We also offer a complete suite of compilers, software code configurators and simulators. Customers moving from entry-level designs to those requiring real-time emulation are able to preserve their investment in learning and tools as they migrate to future microcontroller devices in our portfolio.

Table of Contents

Many independent companies also develop and market application development tools that support our microcontroller product architectures. Currently, there are more than 250 third-party tool suppliers worldwide whose products support our microcontroller architectures.

We believe that familiarity with and adoption of development tools from Microchip as well as third-party development tool partners by an increasing number of product designers will be an important factor in the future selection of our embedded control products. These development tools allow design engineers to develop thousands of application-specific products from our standard microcontrollers. To date, we have shipped approximately 2.4 million development tools.

Analog, Interface, Mixed Signal and Timing Products

Our analog, interface, mixed signal and timing products consist of several families with over 3,800 power management, linear, mixed-signal, high voltage, thermal management, radio frequency (RF), drivers, safety, security, timing, USB, ethernet, wireless and other interface products.

We market and sell our analog, interface, mixed signal and timing products into our microcontroller customer base, to customers who use microcontrollers from other suppliers and to customers who use other products that may not fit our traditional microcontroller and memory products customer base.

Memory Products

Our memory products consist of EEPROMs, Serial Flash memories, Parallel Flash memories, Serial SRAM memories and EERAM. Serial EEPROMs, Serial Flash memories, Serial SRAMs and EERAM have a very low I/O pin requirement, permitting production of very small footprint devices. We sell our memory products primarily into the embedded control market, complementing our microcontroller offerings.

Technology Licensing

Our technology licensing business includes license fees and royalties associated with technology licenses for the use of our SuperFlash® embedded flash and Smartbits® one time programmable NVM technologies. We also generate fees for engineering services related to these technologies. We license our NVM technologies to foundries, integrated device manufacturers and design partners throughout the world for use in the manufacture of their advanced microcontroller products, gate array, RF and analog products that require embedded non-volatile memory.

Multi-Market and Other

Our multi-market and other business offers manufacturing services (wafer foundry and assembly and test subcontracting), legacy application specific integrated circuits, complex programmable logic devices, and products for aerospace applications.

Manufacturing

Our manufacturing operations include wafer fabrication, wafer probe, assembly and test. The ownership of a substantial portion of our manufacturing resources is an important component of our business strategy, enabling us to maintain a high level of manufacturing control, resulting in us being one of the lowest cost producers in the embedded control industry. By owning wafer fabrication facilities and our assembly and test operations, and by employing statistical techniques (statistical process control, designed experiments and wafer level monitoring), we have been able to achieve and maintain high production yields. Direct control over manufacturing resources allows us to shorten our

design and production cycles. This control also allows us to capture a portion of the wafer manufacturing and assembly and testing profit margin. We do outsource a significant portion of our manufacturing requirements to third parties and the amount of our outsourced manufacturing has increased in recent years due to our acquisitions of companies that outsource all or substantial portions of their manufacturing.

Table of Contents

Our manufacturing facilities are located in:

- Tempe, Arizona (Fab 2)
- Gresham, Oregon (Fab 4)
- Colorado Springs, Colorado (Fab 5)
- Chandler, Arizona (wafer probe)
- Bangkok, Thailand (wafer probe, assembly and test)
- Calamba, Philippines (wafer probe and test)

Wafer Fabrication

Fab 2 currently produces 8-inch wafers and supports various manufacturing process technologies, but predominantly utilizes our 0.5 microns to 1.0 microns processes. During fiscal 2018, we increased Fab 2's capacity to support more advanced technologies by making process improvements, upgrading existing equipment, and adding equipment.

Fab 4 currently produces 8-inch wafers using predominantly 0.13 microns to 0.5 microns manufacturing processes. During fiscal 2018, we increased Fab 4's capacity to support more advanced technologies by making process improvements, upgrading existing equipment, and adding equipment. A significant amount of additional clean room capacity in Fab 4 can be brought on line in the future to support incremental wafer fabrication capacity needs.

Fab 5 is a 6-inch wafer fabrication facility that currently utilizes processes from 0.25 microns to 1.0 microns. During fiscal 2018, we made use of the existing capacity of Fab 5 to significantly increase wafer starts to support demand.

We believe the combined capacity of Fab 2, Fab 4, and Fab 5 will provide sufficient capacity to allow us to respond to increases in future demand over the next several years with modest incremental capital expenditures.

We continue to transition products to more advanced process technologies to reduce future manufacturing costs. We believe that our ability to successfully transition to more advanced process technologies is important for us to remain competitive.

We augment our internal manufacturing capabilities by outsourcing a portion of our wafer production requirements to third-party wafer foundries. As a result of our acquisitions in recent years, we have become more reliant on outside wafer foundries for our wafer fabrication requirements. In fiscal 2018, approximately 42% of our sales came from products that were produced at outside wafer foundries.

Wafer Probe, Assembly and Test

We perform wafer probe, product assembly and testing at our facilities located near Bangkok, Thailand, and we perform wafer probe and testing at our facility in Calamba, Philippines. We also perform a limited amount of wafer probe and testing at our Chandler, Arizona facility and our Colorado Springs, Colorado facility. During fiscal 2018, we increased our Thailand and Philippines facilities' capacity to support more technologies by making process improvements, upgrading existing equipment, and adding equipment. During fiscal 2018, approximately 42% of our assembly requirements were being performed in our Thailand facilities and approximately 64% of our test requirements were performed in our Thailand and Philippines facilities. We use third-party assembly and test contractors in several Asian countries for the balance of our assembly and test requirements. Over time, we intend to migrate a portion of the outsourced assembly and test activities to our Thailand and Philippines facilities.

General Matters Impacting Our Manufacturing Operations

Due to the high fixed costs inherent in semiconductor manufacturing, consistently high manufacturing yields have significant positive effects on our gross profit and overall operating results. Our continuous focus on manufacturing productivity has allowed us to maintain excellent manufacturing yields at our facilities. Our manufacturing yields are primarily driven by a comprehensive implementation of statistical process control, extensive employee training and effective use of our manufacturing facilities and equipment. Maintenance of manufacturing productivity and yields are important factors in the achievement of our operating results. The manufacture of integrated circuits, particularly non-volatile, erasable complementary metal-oxide semiconductor (CMOS) memory and logic devices, such as those that we produce, are complex processes. These processes are sensitive to a wide variety of factors, including the level of contaminants in the manufacturing environment, impurities in the materials used and the performance of our manufacturing personnel and equipment. As is typical in the

Table of Contents

semiconductor industry, we have from time to time experienced lower than anticipated manufacturing yields. Our operating results will suffer if we are unable to maintain yields at or above approximately the current levels.

Historically, we have relied on our ability to respond quickly to customer orders as part of our competitive strategy, resulting in customers placing orders with relatively short delivery schedules. In order to respond to such requirements, we have historically maintained a significant work-in-process and finished goods inventory.

The following table summarizes our long-lived assets (consisting of property, plant and equipment) by geography at the end of fiscal 2018, fiscal 2017 and fiscal 2016 (in millions).

	March 31,		
	2018	2017	2016
United States	\$393.3	\$388.5	\$373.9
Thailand	215.5	178.0	182.8
Various other countries	159.1	116.8	52.7
Total long-lived assets	\$767.9	\$683.3	\$609.4

We have many suppliers of raw materials and subcontractors which provide our various materials and service needs. We generally seek to have multiple sources of supply for our raw materials and services, but, in some cases, we may rely on a single or limited number of suppliers. In such event, we have plans to reduce the exposure that would result from a disruption in supply.

Research and Development (R&D)

We are committed to continuing our investment in new and enhanced products, including development systems, and in our design and manufacturing process technologies. We believe these investments are significant factors in maintaining our competitive position. Our current R&D activities focus on the development of general purpose and specialized microcontrollers, 32-bit microprocessors, wired and wireless connectivity products, analog, interface, mixed signal, timing and security products, human machine interface, security, Serial EEPROM memory, NOR FLASH memory, Embedded FLASH technologies, development systems, software and application-specific software libraries. We are also developing design, assembly, test and process technologies to enable new products and innovative features as well as to achieve further cost reductions and performance improvements in existing products.

In fiscal 2018, our R&D expenses were \$529.3 million, compared to \$545.3 million in fiscal 2017 and \$372.6 million in fiscal 2016. R&D expenses included share-based compensation expense of \$42.5 million in fiscal 2018, \$46.8 million in fiscal 2017 and \$32.0 million in fiscal 2016.

Sales and Distribution

General

We market and sell our products worldwide primarily through a network of direct sales personnel and distributors.

Our direct sales force focuses on a wide variety of strategic accounts in three geographical markets: the Americas, Europe and Asia. We currently maintain sales and technical support centers in major metropolitan areas in all three geographic markets. We believe that a strong technical service presence is essential to the continued development of the embedded control market. Many of our client engagement managers (CEMs), embedded system engineers (ESEs), and sales management have technical degrees or backgrounds and have been previously employed in high technology environments. We believe that the technical knowledge of our sales force is a key competitive advantage in the sale of our products. The primary mission of our ESE team is to provide technical assistance to customers and

to conduct periodic training sessions for the balance of our sales team. ESEs also frequently conduct technical seminars and workshops in major cities around the world.

Our licensing division has dedicated sales, technology, design, product, test and reliability personnel that support the requirements of our licensees.

For information regarding our revenue, results of operations, and total assets for each of our last three fiscal years, refer to our financial statements included in this Form 10-K.

Table of Contents

Distribution

Our distributors focus primarily on servicing the product requirements of a broad base of diverse customers. We believe that distributors provide an effective means of reaching this broad and diverse customer base. We believe that customers recognize us for our products and brand name and use distributors as an effective supply channel.

In fiscal 2018, we derived 54% of our net sales through distributors and 46% of our net sales from customers serviced directly by us. In fiscal 2017, we derived 55% of our net sales through distributors and 45% of our net sales from customers serviced directly by us. In fiscal 2016, we derived 53% of our net sales through distributors and 47% of our net sales from customers serviced directly by us. No distributor or end customer accounted for more than 10% of our net sales in fiscal 2018, fiscal 2017 or fiscal 2016.

We do not have long-term agreements with our distributors and we, or our distributors, may each terminate our relationship with little or no advanced notice. The loss of, or the disruption in the operations of, one or more of our distributors could reduce our future net sales in a given quarter and could result in an increase in inventory returns.

Sales by Geography

Sales by geography for fiscal 2018, fiscal 2017 and fiscal 2016 were as follows (dollars in millions):

	Year Ended March 31,					
	2018	%	2017	%	2016	%
Americas	\$717.4	18.0	\$641.8	18.8	\$417.6	19.2
Europe	962.1	24.2	808.6	23.7	474.6	21.8
Asia	2,301.3	57.8	1,957.4	57.5	1,281.1	59.0
Total Sales	\$3,980.8	100.0	\$3,407.8	100.0	\$2,173.3	100.0

Sales to foreign customers accounted for approximately 85% of our net sales in fiscal 2018 and 84% of net sales in each of fiscal 2017 and 2016. Our sales to foreign customers have been predominately in Asia and Europe, which we attribute to the manufacturing strength in those areas for automotive, communications, computing, consumer and industrial control products. Americas' sales include sales to customers in the U.S., Canada, Central America and South America.

Sales to customers in China, including Hong Kong, accounted for approximately 30%, 32% and 30% of our net sales in fiscal 2018, 2017 and 2016, respectively. Sales to customers in Taiwan accounted for approximately 11%, 9% and 12% of our net sales in fiscal 2018, 2017 and 2016, respectively. We did not have sales into any other foreign countries that exceeded 10% of our net sales during fiscal 2018, 2017 or 2016.

Our international sales are substantially all U.S. dollar denominated. Although foreign sales are subject to certain government export restrictions, we have not experienced any material difficulties to date as a result of export restrictions.

The semiconductor industry is characterized by seasonality and wide fluctuations of supply and demand. Our business tends to generate historically stronger revenues in the first and second quarters and comparatively weaker revenues in the third and fourth quarters of our fiscal year. However, broad fluctuations in our overall business, changes in semiconductor industry and global economic conditions, and our acquisition activity (including our acquisition of Atmel and our pending acquisition of Microsemi) can have a more significant impact on our results than seasonality.

Backlog

As of April 30, 2018, our backlog was approximately \$1,833.9 million, compared to \$1,624.1 million as of April 30, 2017. Our backlog includes all purchase orders scheduled for delivery within the subsequent 12 months.

We primarily produce standard products that can be shipped from inventory within a relatively short time after we receive an order. Our business and, to a large extent, that of the entire semiconductor industry, is characterized by short-term orders and shipment schedules. Orders constituting our current backlog are subject to changes in delivery schedules, or to cancellation at the customer's option without significant penalty. Thus, while backlog is useful for scheduling production, backlog as of any particular date may not be a reliable measure of our sales for any future period.

Table of Contents

Competition

The semiconductor industry is intensely competitive and has been characterized by price erosion and rapid technological change. We compete with major domestic and international semiconductor companies, many of which have greater market recognition and greater financial, technical, marketing, distribution and other resources than we have with which to pursue engineering, manufacturing, marketing and distribution of their products. We also compete with a number of companies that we believe have copied, cloned, pirated or reverse engineered our proprietary product lines in such countries as China and Taiwan. We are continuing to take actions to vigorously and aggressively defend and protect our intellectual property on a worldwide basis.

We currently compete principally on the basis of the technical innovation and performance of our embedded control products, including the following product characteristics:

- performance
- analog, digital and mixed signal functionality and level of functional integration
- memory density
- low power consumption
 - extended voltage ranges
- reliability
- packaging alternatives
- complete development tool line

We believe that other important competitive factors in the embedded control market include:

- ease of use
- functionality of application development systems
- dependable delivery, quality and availability
- technical and innovative service and support
- time to market
- price

We believe that we compete favorably with other companies on all of these factors, but we may be unable to compete successfully in the future, which could harm our business.

Patents, Licenses and Trademarks

We maintain a portfolio of U.S. and foreign patents, expiring on various dates through 2037. We also have numerous additional U.S. and foreign patent applications pending. We do not expect that the expiration of any particular patent will have a material impact on our business. While our intention is to continue to patent our technology and manufacturing processes, we believe that our continued success depends primarily on the technological skills and innovative capabilities of our personnel and our ability to rapidly commercialize new and enhanced products. As with any operating company, the scope and strength of our intellectual property assets, including our pending and existing patents, trademarks, copyrights, and other intellectual property rights may be insufficient to provide meaningful protection or commercial advantage. Moreover, pursuing violations of intellectual property rights on a worldwide basis is a complex challenge involving multinational patent, trademark, copyright and trade secret laws. Further, the laws of particular foreign countries often fail to protect our intellectual property rights to the same extent as the laws of the U.S.

We have also entered into certain intellectual property licenses and cross-licenses with other companies and those licenses relate to semiconductor products and manufacturing processes. As is typical in the semiconductor industry, we and our customers from time to time receive, and may continue to receive, demand letters from third parties asserting infringement of patent and other intellectual property rights. We diligently investigate all such notices and respond as we believe appropriate. In most cases we believe that we can obtain necessary licenses on commercially reasonable terms, however, we cannot be certain that this would be the case, or that litigation or damages for any past infringement could be avoided. Litigation, which could result in substantial costs and require significant attention from management, may be necessary to enforce our intellectual property rights, or to defend against claimed infringement of the rights of others. The failure to obtain necessary licenses, or the necessity of engaging in defensive litigation, could harm our business.

Table of Contents

Environmental Regulation

We must comply with many different federal, state, local and foreign governmental regulations related to the use, storage, discharge and disposal of certain chemicals and gases used in our manufacturing processes. Our facilities have been designed to comply with these regulations and we believe that our activities are conducted in material compliance with such regulations. Any changes in such regulations or in their enforcement could require us to acquire costly equipment or to incur other significant expenses to comply with environmental regulations. Any failure by us to adequately control the storage, use, discharge and disposal of regulated substances could result in significant future liabilities.

Increasing public attention has been focused on the environmental impact of electronic manufacturing operations. While we have not experienced any materially adverse effects on our operations from recently adopted environmental regulations, our business and results of operations could suffer if for any reason we fail to control the storage or use of, or to adequately restrict the discharge or disposal of, hazardous substances under present or future environmental regulations.

Employees

As of March 31, 2018, we had 14,234 employees. We have never had a work stoppage and believe that our employee relations are good.

Executive Officers of the Registrant

The following sets forth certain information regarding our executive officers as of April 30, 2018:

Name	Age	Position
Steve Sanghi	62	Chief Executive Officer and Chairman of the Board
Ganesh Moorthy	58	President and Chief Operating Officer
J. Eric Bjornholt	47	Vice President, Chief Financial Officer
Stephen V. Drehobl	56	Vice President, MCU8 and Technology Development Division
Mitchell R. Little	66	Vice President, Worldwide Sales and Applications
Richard J. Simoncic	54	Vice President, Analog Power and Interface Division

Mr. Sanghi has served as Chief Executive Officer since October 1991, and as Chairman of the Board since October 1993. He served as President from August 1990 to February 2016 and has served as a director since August 1990. Mr. Sanghi holds an M.S. degree in Electrical and Computer Engineering from the University of Massachusetts and a B.S. degree in Electronics and Communication from Punjab University. In November 2016, Mr. Sanghi joined the Board of Directors of Myomo, Inc., a publicly traded commercial stage medical robotics company that offers expanded mobility for those suffering from neurological disorders and upper-limb paralysis. In February 2018, Mr. Sanghi joined the board of Mellanox Technologies Ltd., a publicly traded supplier of end-to-end Ethernet and InfiniBand intelligent interconnect solutions and services for servers, storage, and hyper-converged infrastructure.

Mr. Moorthy has served as President since February 2016 and as Chief Operating Officer since June 2009. He also served as Executive Vice President from October 2006 to August 2012 and as a Vice President in various roles since he joined Microchip in 2001. Prior to this time, he served in various executive capacities with other semiconductor companies. Mr. Moorthy holds an M.B.A. in Marketing from National University, a B.S. degree in Electrical Engineering from the University of Washington and a B.S. degree in Physics from the University of Mumbai, India. Mr. Moorthy was elected to the Board of Directors of Rogers Corporation in July 2013.

Mr. Bjornholt has served as Vice President of Finance since 2008 and as Chief Financial Officer since January 2009. He has served in various financial management capacities since he joined Microchip in 1995. Mr. Bjornholt holds a Master's degree in Taxation from Arizona State University and a B.S. degree in Accounting from the University of Arizona.

Table of Contents

Mr. Drehabl has served as Vice President of the MCU8 and Technology Development Division since July 2001. He has been employed by Microchip since August 1989 and has served as a Vice President in various roles since February 1997. Mr. Drehabl holds a Bachelor of Technology degree from the University of Dayton.

Mr. Little has served as Vice President, Worldwide Sales and Applications since July 2000. He has been employed by Microchip since 1989 and has served as a Vice President in various roles since September 1993. Mr. Little holds a B.S. degree in Engineering Technology from United Electronics Institute.

Mr. Simoncic has served as Vice President, Analog Power and Interface Division since September 1999. From October 1995 to September 1999, he served as Vice President in various roles. Since joining Microchip in 1990, Mr. Simoncic held various roles in Design, Device/Yield Engineering and Quality Systems. Mr. Simoncic holds a B.S. degree in Electrical Engineering Technology from DeVry Institute of Technology.

Table of Contents

Item 1A. Risk Factors

When evaluating Microchip and its business, you should give careful consideration to the factors listed below, in addition to the information provided elsewhere in this Form 10-K and in other documents that we file with the Securities and Exchange Commission.

Our operating results are impacted by global economic conditions and may fluctuate in the future due to a number of factors that could reduce our net sales and profitability.

Our operating results are affected by a wide variety of factors that could reduce our net sales and profitability, many of which are beyond our control. Some of the factors that may affect our operating results include:

- general economic, industry or political conditions in the U.S. or internationally;
- changes in demand or market acceptance of our products and products of our customers, and market fluctuations in the industries into which such products are sold;
- changes in tax regulations and policies in the U.S. and other countries in which we do business including the impact of the Tax Cuts and Jobs Act of 2017 (the Act);
- new accounting pronouncements or changes in existing accounting standards and practices, including the impact of the new revenue recognition standard (ASC 606) on our financial statements;
- our ability to continue to realize the expected benefits of our acquisitions including our pending acquisition of Microsemi;
- our ability to ramp our factory capacity to meet customer demand;
- our ability to secure sufficient wafer foundry, assembly and testing capacity;
- changes or fluctuations in customer order patterns and seasonality;
- changes in utilization of our manufacturing capacity and fluctuations in manufacturing yields;
- the mix of inventory we hold and our ability to satisfy orders from our inventory;
- levels of inventories held by our customers;
- risk of excess and obsolete inventories;
- competitive developments including pricing pressures;
- unauthorized copying of our products resulting in pricing pressure and loss of sales;
- availability of raw materials and equipment;
- our ability to successfully transition products to more advanced process technologies to reduce manufacturing costs;
- the level of orders that are received and can be shipped in a quarter;
- the level of sell-through of our products through distribution;
- fluctuations in our mix of product sales;
- announcements of other significant acquisitions by us or our competitors;
- disruptions in our business or our customers' businesses due to terrorist activity, armed conflict, war, worldwide oil prices and supply, public health concerns, natural disasters or disruptions in the transportation system;
- constrained availability from other electronic suppliers impacting our customers' ability to ship their products, which in turn may adversely impact our sales to those customers;
- costs and outcomes of any current or future tax audits or any litigation or claims involving intellectual property, customers or other issues;
- fluctuations in commodity or energy prices; and
- property damage or other losses, whether or not covered by insurance.

We believe that period-to-period comparisons of our operating results are not necessarily meaningful and that you should not rely upon any such comparisons as indications of our future performance. In future periods, our operating results may fall below our public guidance or the expectations of public market analysts and investors, which would

likely have a negative effect on the price of our common stock. Uncertain global economic conditions, the ongoing economic recovery and uncertainty surrounding the strength and duration of such recovery have caused our operating results to fluctuate significantly and make comparability between periods less meaningful.

Table of Contents

We may not fully realize the anticipated benefits of our completed or future acquisitions or divestitures including our pending acquisition of Microsemi.

We have acquired, and expect in the future to acquire, additional businesses that we believe will complement or augment our existing businesses. On March 1, 2018, we entered into a definitive agreement to acquire Microsemi. We expect the acquisition of Microsemi to close in June 2018. In addition, in April 2016, we completed our acquisition of Atmel; and in August 2015, we completed our acquisition of Micrel. The integration process for our acquisitions is complex and may be costly and time consuming and include unanticipated issues, expenses and liabilities. We may not be able to successfully or profitably integrate, operate, maintain and manage any newly acquired operations or employees. We may not be able to maintain uniform standards, procedures and policies and we may be unable to realize the expected synergies and cost savings from the integration. There may be increased risk due to integrating financial reporting and internal control systems. We may have difficulty in developing, manufacturing and marketing the products of a newly acquired company, or in growing the business at the rate we anticipate. Following an acquisition, we may not achieve the revenue or net income levels that justify the acquisition. We may suffer loss of key employees, customers and strategic partners of acquired companies and it may be difficult to implement our corporate culture at acquired companies. We have been and may in the future be subject to claims from terminated employees, shareholders of acquired companies and other third parties related to the transaction. In particular, as a result of our Atmel acquisition, we became involved with third-party claims, litigation and disputes related to the Atmel business. See Note 12 to our consolidated financial statements for information regarding pending litigation. Acquisitions may also result in charges (such as acquisition-related expenses, write-offs, restructuring charges, or future impairment of goodwill), contingent liabilities, adverse tax consequences, additional share-based compensation expense and other charges that adversely affect our operating results. To fund our pending acquisition of Microsemi, we plan to use a significant portion of our cash balances and incur approximately \$8.0 billion of additional debt through borrowings under our credit agreement and issuance of new debt. We may fund future acquisitions of new businesses or strategic alliances by utilizing cash, borrowings under our credit agreement, raising debt, issuing shares of our common stock, or other mechanisms.

Further, if we decide to divest assets or a business, we may encounter difficulty in finding or completing divestiture opportunities or alternative exit strategies on acceptable terms or in a timely manner. These circumstances could delay the achievement of our strategic objectives or cause us to incur additional expenses with respect to assets or a business that we want to dispose of, or we may dispose of assets or a business at a price or on terms that are less favorable than we had anticipated. Even following a divestiture, we may be contractually obligated with respect to certain continuing obligations to customers, vendors, landlords or other third parties. We may also have continuing obligations for pre-existing liabilities related to the assets or businesses. Such obligations may have a material adverse impact on our results of operations and financial condition.

In addition to acquisitions, we have in the past, and expect in the future, to enter into joint development agreements or other business or strategic relationships with other companies. These transactions are subject to a number of risks similar to those we face with our acquisitions including our ability to realize the expected benefits of any such transaction, to successfully market and sell any products resulting from such transactions or to successfully integrate any technology developed through such transactions.

Our financial condition and results of operations could be adversely affected if we do not effectively manage our current or future debt.

As of March 31, 2018, the principal amount of our outstanding indebtedness was \$4,481.3 million. In February 2017, we issued \$2,645.0 million of aggregate principal value of senior and junior convertible debt and amended our existing credit agreement to, among other things, increase certain covenant compliance ratios. The February 2017 credit agreement amendment included a new collateral agreement that secures our borrowings with all assets of our

guarantor subsidiaries with the exception of real property. We used a portion of the proceeds from the issuance of the 2017 senior and junior convertible debt to settle \$431.3 million in principal value of our 2007 Junior Debt and \$1,682.5 million to pay off the outstanding balance under our credit facility. At March 31, 2018, there were no outstanding borrowings under our credit facility which had a capacity of \$3,122.3 million and is comprised of one tranche expiring in February 2020. In connection with the closing of our pending acquisition of Microsemi, we expect to incur approximately \$8.0 billion of additional debt through borrowings under our credit agreement and issuance of new debt. As a result of such transactions, we will have a substantially greater amount of debt than we had maintained in the past. Our maintenance of substantial levels of debt could adversely affect our ability to take advantage of corporate opportunities and could adversely affect our financial condition and results of operations. We may need or desire to refinance our convertible debt or any other future indebtedness and there can be no assurance that we will be able to refinance any of our indebtedness on commercially reasonable terms, if at all.

Table of Contents

Servicing our current debt and expected debt to finance the Microsemi acquisition will require a significant amount of cash, and we may not have sufficient cash flow from our business to fund future payments.

Our ability to make scheduled payments of principal, to pay interest on or to refinance our indebtedness, including our outstanding debentures and expected debt to be incurred to finance our acquisition of Microsemi, depends on our future performance, which is subject to economic, financial, competitive and other factors. Our business may not continue to generate cash flow from operations in the future sufficient to service our debt and to fund capital expenditures, dividend payments, share repurchases or acquisitions. If we are unable to generate such cash flow, we may be required to adopt one or more alternatives, such as selling assets, restructuring debt or obtaining additional equity capital on terms that may be onerous or highly dilutive. Our ability to refinance our indebtedness will depend on the capital markets and our financial condition at such time.

We are dependent on orders that are received and shipped in the same quarter and therefore have limited visibility to future product shipments.

Our net sales in any given quarter depend upon a combination of shipments from backlog and customer orders that are both received and shipped in that same quarter, which we refer to as turns orders. We measure turns orders at the beginning of a quarter based on the orders needed to meet the shipment targets that we set entering the quarter. Historically, we have relied on our ability to respond quickly to customer orders as part of our competitive strategy, resulting in customers placing orders with relatively short delivery schedules. Shorter lead times generally mean that turns orders as a percentage of our business are relatively high in any particular quarter and reduce our backlog visibility on future product shipments. Turns orders correlate to overall semiconductor industry conditions and product lead times. Because turns orders are difficult to predict, varying levels of turns orders make it more difficult to forecast net sales. As a significant portion of our products are manufactured at foundries, foundry lead times may affect our ability to satisfy certain turns orders. If we do not achieve a sufficient level of turns orders in a particular quarter relative to our revenue targets, our revenue and operating results will likely suffer.

Intense competition in the markets we serve may lead to pricing pressures, reduced sales of our products or reduced market share.

The semiconductor industry is intensely competitive and has been characterized by price erosion and rapid technological change. We compete with major domestic and international semiconductor companies, many of which have greater market recognition and substantially greater financial, technical, marketing, distribution and other resources than we do. The semiconductor industry has experienced significant merger and acquisition activity and consolidation in recent years which has resulted in several of our competitors becoming much larger in terms of revenue, product offerings and scale. We may be unable to compete successfully in the future, which could harm our business. Our ability to compete successfully depends on a number of factors both within and outside our control, including, but not limited to:

- the quality, performance, reliability, features, ease of use, pricing and diversity of our products;
- our success in designing and manufacturing new products including those implementing new technologies;
- our ability to ramp production and increase capacity, as needed, at our wafer fabrication and assembly and test facilities;
- the rate at which customers incorporate our products into their own applications and the success of such applications;
- the rate at which the markets that we serve redesign and change their own products;
- our ability to obtain adequate foundry and assembly and test capacity and supplies of raw materials and other supplies at acceptable prices;
- changes in demand in the markets that we serve and the overall rate of growth or contraction of such markets, including but not limited to the automotive, personal computing and consumer electronics markets;

product introductions by our competitors;
the number, nature and success of our competitors in a given market;
our ability to protect our products and processes by effective utilization of intellectual property rights;
our ability to remain price competitive against companies that have copied our proprietary product lines, especially in countries where intellectual property rights protection is difficult to achieve and maintain;
our ability to address the needs of our customers; and
general market and economic conditions.

Table of Contents

Historically, average selling prices in the semiconductor industry decrease over the life of any particular product. The average selling prices of our microcontroller and proprietary analog, interface, mixed signal and timing products have remained relatively constant, while average selling prices of our memory and non-proprietary analog, interface, mixed signal and timing products have declined over time. The overall average selling price of our products is affected by these trends; however, variations in our product and geographic mix of sales can cause wider fluctuations in our overall average selling price in any given period.

We have experienced, and expect to continue to experience, modest pricing declines in certain of our more mature proprietary product lines, primarily due to competitive conditions. We have been able to moderate average selling price declines in many of our proprietary product lines by continuing to introduce new products with more features and higher prices. However, there can be no assurance that we will be able to do so in the future. We have experienced in the past, and expect to continue to experience in the future, varying degrees of competitive pricing pressures in our memory and non-proprietary analog, interface, mixed signal and timing products. We may be unable to maintain average selling prices for our products as a result of increased pricing pressure in the future, which could adversely impact our operating results.

We are dependent on wafer foundries and other contractors to perform key manufacturing functions for us, and our licensees of our SuperFlash and other technologies also rely on foundries and other contractors.

We rely on outside wafer foundries for a significant portion of our wafer fabrication needs. Specifically, during fiscal 2018 and fiscal 2017, approximately 42% and 41%, respectively, of our net sales came from products that were produced at outside wafer foundries. We also use several contractors located primarily in Asia for a portion of the assembly and testing of our products. Specifically, during fiscal 2018, approximately 58% of our assembly requirements and 36% of our test requirements were performed by third party contractors compared to approximately 64% of our assembly requirements and 40% of our test requirements during fiscal 2017. Our reliance on third party contractors and foundries increased as a result of our acquisitions of Atmel, Micrel, SMSC, Supertex and ISSC. Microsemi relies on wafer foundries for a significant portion of its wafer fabrication needs. Accordingly, upon completion of our acquisition of Microsemi, our reliance on third party contractors and foundries will increase significantly. The disruption or termination of any of our contractors could harm our business and operating results.

Our use of third parties somewhat reduces our control over the subcontracted portions of our business. Our future operating results could suffer if any contractor were to experience financial, operational or production difficulties or situations when demand exceeds capacity, or if they were unable to maintain manufacturing yields, assembly and test yields and costs at approximately their current levels, or if the countries in which such contractors are located were to experience political upheaval or infrastructure disruption. If these third parties are unable or unwilling to timely deliver products or services conforming to our quality standards, we may not be able to qualify additional manufacturing sources for our products in a timely manner on terms favorable to us, or at all. Additionally, these subcontractors could abandon fabrication processes that are important to us, or fail to adopt advanced manufacturing technologies that we desire to control costs. In any such event, we could experience an interruption in production, an increase in manufacturing and production costs or a decline in product reliability, and our business and operating results could be adversely affected. Further, our use of subcontractors increases the risks of potential misappropriation of our intellectual property.

Certain of our SuperFlash and other technology licensees also rely on outside wafer foundries for wafer fabrication services. If our licensees were to experience any disruption in supply from outside wafer foundries, this would reduce the revenue we receive in our technology licensing business and would harm our operating results.

Our operating results will suffer if we ineffectively utilize our manufacturing capacity or fail to maintain manufacturing yields.

The manufacture and assembly of integrated circuits, particularly non-volatile, erasable CMOS memory and logic devices such as those that we produce, are complex processes. These processes are sensitive to a wide variety of factors, including the level of contaminants in the manufacturing environment, impurities in the materials used, the performance of our wafer fabrication and assembly and test personnel and equipment, and other quality issues. As is typical in the semiconductor industry, we have from time to time experienced lower than anticipated manufacturing yields. Our operating results will suffer if we are unable to maintain yields at or above approximately the current levels. This could include delays in the recognition of revenue, loss of revenue or future orders, and customer-imposed penalties for our failure to meet contractual shipment deadlines. Our operating results are also adversely affected when we operate at less than optimal capacity. Although we operated at normal capacity levels during fiscal 2018 and fiscal 2017, there can be no assurance that such production levels will be maintained in future periods.

Table of Contents

Our operating results are impacted by both seasonality and the wide fluctuations of supply and demand in the semiconductor industry.

The semiconductor industry is characterized by seasonality and wide fluctuations of supply and demand. Since a significant portion of our revenue is from consumer markets and international sales, our business tends to generate historically stronger revenues in the first and second quarters and comparatively weaker revenues in the third and fourth quarters of our fiscal year. However, broad fluctuations in our overall business, changes in semiconductor industry and global economic conditions, and our acquisition activity (including our acquisition of Atmel and our pending acquisition of Microsemi) can have a more significant impact on our results than seasonality. As a result, in periods when these broad fluctuations, changes in business conditions or acquisitions occur, it is difficult to assess the impact of seasonal factors on our business. The semiconductor industry has also experienced significant economic downturns, characterized by diminished product demand and production over-capacity. We have sought to reduce our exposure to this industry cyclically by selling proprietary products, that cannot be easily or quickly replaced, to a geographically diverse customer base across a broad range of market segments. However, we have experienced substantial period-to-period fluctuations in operating results and expect, in the future, to experience period-to-period fluctuations in operating results due to general industry or economic conditions.

Our business is dependent on selling through distributors.

Sales through distributors accounted for approximately 54% of our net sales in fiscal 2018 and approximately 55% of our net sales in fiscal 2017. We do not have long-term agreements with our distributors, and we and our distributors may each terminate our relationship with little or no advance notice.

Any future adverse conditions in the U.S. or global economies or in the U.S. or global credit markets could materially impact the operations of our distributors. Any deterioration in the financial condition of our distributors or any disruption in the operations of our distributors could adversely impact the flow of our products to our end customers and adversely impact our results of operation. In addition, during an industry or economic downturn, it is possible there will be an oversupply of products and a decrease in demand for our products from our distributors, which could reduce our net sales in a given period and result in an increase in inventory returns. Violations of the Foreign Corrupt Practices Act, or similar laws, by our distributors or other channel partners could have a material adverse impact on our business.

Our success depends on our ability to introduce new products on a timely basis.

Our future operating results depend on our ability to develop and timely introduce new products that compete effectively on the basis of price and performance and which address customer requirements. The success of our new product introductions depends on various factors, including, but not limited to:

- effective new product selection;
- timely completion and introduction of new product designs;
- procurement of licenses for intellectual property rights from third parties under commercially reasonable terms;
- timely filing and protection of intellectual property rights for new product designs;
- availability of development and support tools and collateral literature that make complex new products easy for engineers to understand and use; and
- market acceptance of our customers' end products.

Because our products are complex, we have experienced delays from time to time in completing new product development. In addition, our new products may not receive or maintain substantial market acceptance. We may be unable to timely design, develop and introduce competitive products, which could adversely impact our future

operating results.

Our success also depends upon our ability to develop and implement new design and process technologies. Semiconductor design and process technologies are subject to rapid technological change and require significant R&D expenditures. We and other companies in the industry have, from time to time, experienced difficulties in effecting transitions to advanced process technologies and, consequently, have suffered reduced manufacturing yields or delays in product deliveries. Our future operating results could be adversely affected if any transition to future process technologies is substantially delayed or inefficiently implemented.

Table of Contents

We may lose sales if our suppliers of raw materials and equipment fail to meet our needs.

Our semiconductor manufacturing operations require raw and processed materials and equipment that must meet exacting standards. We generally have more than one source for these supplies, but there are only a limited number of suppliers capable of delivering various materials and equipment that meet our standards. The materials and equipment necessary for our business could become more difficult to obtain as worldwide use of semiconductors in product applications increases. Additionally, consolidation in our supply chain due to mergers and acquisitions may reduce the number of suppliers or change the relationships that we have with our suppliers. This could impair sourcing flexibility or increase costs. We have experienced supply shortages from time to time in the past, and on occasion our suppliers have told us they need more time than expected to fill our orders or that they will no longer support certain equipment with updates or spare and replacement parts. In particular, we have recently experienced longer lead times for equipment which we need for capacity expansion at certain of our manufacturing facilities. An interruption of any materials or equipment sources, or the lack of supplier support for a particular piece of equipment, could harm our business.

Our reported financial results may be adversely affected by new accounting pronouncements or changes in existing accounting standards and practices, including ASC 606 which will impact our revenue recognition.

We prepare our financial statements in conformity with accounting principles generally accepted in the U.S. These accounting principles are subject to interpretation or changes by the FASB and the SEC. New accounting pronouncements and varying interpretations of accounting standards and practices have occurred in the past and are expected to occur in the future. New accounting pronouncements or a change in the interpretation of existing accounting standards or practices may have a significant effect on our reported financial results and may even affect our reporting of transactions completed before the change is announced or effective. In May 2014, the FASB issued Accounting Standards Update (ASU) 2014-09 - Revenue from Contracts with Customers (Topic 606), which supersedes nearly all existing revenue recognition guidance under generally accepted accounting principles in the United States of America (US GAAP). The standard's core principle is that a company will recognize revenue when it transfers promised goods or services to customers in an amount that reflects the consideration to which the company expects to be entitled in exchange for those goods or services. Upon our adoption of ASU 2014-09 beginning with our fiscal year commencing on April 1, 2018, we will no longer defer revenue until sale by the distributor to the end customer, but rather, will be required to estimate the effects of returns and allowances provided to distributors and record revenue at the time of sale to the distributor. Refer to Note 1 to our consolidated financial statements for additional information on the new guidance and its expected impact on us.

Business interruptions to our operations or the operations of our key vendors, subcontractors, licensees or customers, whether due to natural disasters or other events, could harm our business.

Operations at any of our facilities, at the facilities of any of our wafer fabrication or assembly and test subcontractors, or at any of our significant vendors or customers may be disrupted for reasons beyond our control. These reasons may include work stoppages, power loss, cyber attacks, incidents of terrorism or security risk, political instability, public health issues, telecommunications, transportation or other infrastructure failure, radioactive contamination, fire, earthquake, floods, volcanic eruptions or other natural disasters. We have taken steps to mitigate the impact of some of these events should they occur; however, we cannot be certain that our actions will be effective to avoid a significant impact on our business in the event of a disaster or other business interruption.

In particular, Thailand has experienced periods of severe flooding in recent years. While our facilities in Thailand have continued to operate normally, there can be no assurance that any future flooding in Thailand would not have a material adverse impact on our operations. If operations at any of our facilities, or our subcontractors' facilities are interrupted, we may not be able to shift production to other facilities on a timely basis, and we may need to spend

significant amounts to repair or replace our facilities and equipment. If we experienced business interruptions, we would likely experience delays in shipments of products to our customers and alternate sources for production may be unavailable on acceptable terms. This could result in reduced revenues and profits and the cancellation of orders or loss of customers. Although we maintain business interruption insurance, such insurance will likely not be enough to compensate us for any losses that may occur and any losses or damages incurred by us as a result of business interruptions could significantly harm our business.

Additionally, operations at our customers and licensees may be disrupted for a number of reasons. In the event of customer disruptions, sales of our products may decline and our revenue, profitability and financial condition could suffer. Likewise, if our licensees are unable to manufacture and ship products incorporating our technology, or if there is a decrease in product demand due to a business disruption, our royalty revenue may decline.

Table of Contents

Our technology licensing business exposes us to various risks.

Our technology licensing business is based on our SuperFlash and other technologies. The success of our licensing business depends on the continued market acceptance of these technologies and on our ability to further develop and enhance such technologies and to introduce new technologies in the future. To be successful, any such technology must be able to be repeatably implemented by licensees, provide satisfactory yield rates, address licensee and customer requirements, and perform competitively. The success of our technology licensing business depends on various other factors, including, but not limited to:

- proper identification of licensee requirements;
- timely development and introduction of new or enhanced technology;
- our ability to protect and enforce our intellectual property rights for our licensed technology;
- our ability to limit our liability and indemnification obligations to licensees;
- availability of sufficient development and support services to assist licensees in their design and manufacture of products integrating our technology;
- availability of foundry licensees with sufficient capacity to support original equipment manufacturers (OEM) production; and
- market acceptance of our customers' end products.

Because our licensed technologies are complex, there may be delays from time to time in developing and enhancing such technologies. There can be no assurance that our existing or any enhanced or new technology will achieve or maintain substantial market acceptance. Our licensees may experience disruptions in production or lower than expected production levels which would adversely affect the revenue that we receive from them. Our technology license agreements generally include an indemnification clause that indemnifies the licensee against liability and damages (including legal defense costs) arising from intellectual property matters. We could be exposed to substantial liability for claims or damages related to intellectual property matters or indemnification claims. Any claim, with or without merit, could result in significant legal fees and require significant attention from our management. Any of the foregoing issues may adversely impact the success of our licensing business and adversely affect our future operating results.

We are exposed to various risks related to legal proceedings or claims.

We are currently, and in the future may be, involved in legal proceedings or claims regarding patent infringement, other intellectual property rights, product failures, contracts and other matters. As is typical in the semiconductor industry, we receive notifications from third parties from time to time who believe that we owe them indemnification or other obligations related to claims made against us, our direct or indirect customers or our licensees. These legal proceedings and claims, even if meritless, could result in substantial costs to us and divert our resources. If we are not able to resolve a claim, settle a matter, obtain necessary licenses on commercially reasonable terms, reengineer our products or processes to avoid infringement, provide a cost-effective remedy, or successfully prosecute or defend our position, we could incur uninsured liability in any of them, be required to take an appropriate charge to operations, be enjoined from selling a material portion of our products or using certain processes, suffer a reduction or elimination in the value of our inventories, and our business, financial condition or results of operations could be harmed.

It is also possible that from time to time we may be subject to claims related to the manufacture, performance or use of our products. These claims may be due to injuries, economic damage or environmental exposures related to manufacturing, a product's nonconformance to our specifications or specifications agreed upon with the customer, changes in our manufacturing processes, or unexpected customer system issues due to the integration of our products or insufficient design or testing by our customers. We could incur significant expenses related to such matters, including, but not limited to:

- costs related to writing off the value of our inventory of nonconforming products;
- recalling nonconforming products;
- providing support services, product replacements, or modifications to products and the defense of such claims;
- diversion of resources from other projects;
- lost revenue or a delay in the recognition of revenue due to cancellation of orders or unpaid receivables;
- customer imposed fines or penalties for failure to meet contractual requirements; and
- a requirement to pay damages or penalties.

Table of Contents

Because the systems into which our products are integrated have a higher cost of goods than the products we sell, the expenses and damages we are asked to pay may be significantly higher than the sales and profits we received from the products involved. While we specifically exclude consequential damages in our standard terms and conditions, certain of our contracts may not exclude such liabilities. Further, our ability to avoid such liabilities may be limited by applicable law. We do have liability insurance which covers certain damages arising out of product defects, but we do not expect that insurance will cover all claims or be of a sufficient amount to fully protect against such claims. Costs or payments we may make in connection with these customer claims may adversely affect the results of our operations.

Further, we sell to customers in industries such as automotive, aerospace, defense, safety, security, and medical, where failure of the systems in which our products are integrated could cause damage to property or persons. We may be subject to claims if our products, or the integration of our products, cause system failures. We will face increased exposure to claims if there are substantial increases in either the volume of our sales into these applications or the frequency of system failures integrating our products.

Failure to adequately protect our intellectual property could result in lost revenue or market opportunities.

Our ability to obtain patents, licenses and other intellectual property rights covering our products and manufacturing processes is important for our success. To that end, we have acquired certain patents and patent licenses and intend to continue to seek patents on our technology and manufacturing processes. The process of seeking patent protection can be long and expensive, and patents may not be issued from currently pending or future applications. In addition, our existing and new patents, trademarks and copyrights that issue may not have sufficient scope or strength to provide meaningful protection or commercial advantage to us. We may be subject to, or may ourselves initiate, interference proceedings in the U.S. Patent and Trademark Office, patent offices of a foreign country or U.S. or foreign courts, which can require significant financial and management resources. In addition, the laws of certain foreign countries do not protect our intellectual property rights to the same extent as the laws of the U.S. Infringement of our intellectual property rights by a third party could result in uncompensated lost market and revenue opportunities for us. Although we continue to vigorously and aggressively defend and protect our intellectual property on a worldwide basis, there can be no assurance that we will be successful in our endeavors.

Our operating results may be adversely impacted if economic conditions impact the financial viability of our licensees, customers, distributors, or suppliers.

We regularly review the financial performance of our licensees, customers, distributors and suppliers. However, any downturn in global economic conditions may adversely impact the financial viability of our licensees, customers, distributors or suppliers. The financial failure of a large licensee, customer or distributor, an important supplier, or a group thereof, could have an adverse impact on our operating results and could result in our not being able to collect our accounts receivable balances, higher reserves for doubtful accounts, write-offs for accounts receivable, and higher operating costs as a percentage of net sales.

We are highly dependent on foreign sales and operations, which exposes us to foreign political and economic risks.

Sales to foreign customers account for a substantial portion of our net sales. During fiscal 2018, approximately 85% of our net sales were made to foreign customers, including 30% in China. During fiscal 2017, approximately 84% of our net sales were made to foreign customers, including 32% in China.

A strong position in the Chinese market is a key component of our global growth strategy. The market for integrated circuit products in China is highly competitive, and both international and domestic competitors are aggressively seeking to increase their market share. Increased competition or economic weakness in the China market may make it

difficult for us to achieve our desired sales volumes in China. In particular, economic conditions in China remain uncertain and we are unable to predict whether such uncertainty will continue or worsen in future periods.

We purchase a substantial portion of our raw materials and equipment from foreign suppliers. In addition, we own product assembly and testing facilities near Bangkok, Thailand, which has experienced periods of political instability in the past. A large portion of our finished goods inventory is maintained in Thailand. From time to time, Thailand has also experienced periods of severe flooding. There can be no assurance that any future flooding or political instability in Thailand would not have a material adverse impact on our operations. As part of our Atmel acquisition, we acquired a test facility in Calamba, Philippines. We use various foundries and other foreign contractors for a significant portion of our assembly and testing and wafer fabrication requirements.

Table of Contents

Our reliance on foreign operations, foreign suppliers, maintenance of substantially all of our finished goods inventory at foreign locations and significant foreign sales exposes us to foreign political and economic risks, including, but not limited to:

- political, social and economic instability;
- potentially adverse tax consequences;
- economic uncertainty in the worldwide markets served by us;
- trade restrictions and changes in tariffs;
- import and export license requirements and restrictions;
- changes in rules and laws related to taxes, environmental, health and safety, technical standards and consumer protection in various jurisdictions;
- currency fluctuations and foreign exchange regulations;
- difficulties in staffing and managing international operations;
- employment regulations;
- disruptions in international transport or delivery;
- public health conditions; and
- difficulties in collecting receivables and longer payment cycles.

If any of these risks materialize, or are worse than we anticipate, our sales could decrease and our operating results could suffer.

Our contractual relationships with our customers expose us to risks and liabilities.

We do not typically enter into long-term contracts with our customers, and therefore we cannot be certain about future order levels from our customers. When we do enter into customer contracts, the contract is generally cancelable at the convenience of the customer. Even though we had over 119,000 customers and our ten largest direct customers made up approximately 11% of our total revenue for fiscal 2018 and five of our top ten direct customers are contract manufacturers that perform manufacturing services for many customers, cancellation of customer contracts could have an adverse impact on our revenue and profits.

We have contracts with certain customers that differ from our standard terms of sale. For several of the significant markets that we sell into, such as the automotive and personal computer markets, our current or potential customers may possess significant leverage over us in negotiating the terms and conditions of supply as a result of their market size and position. For example, under certain contracts we may commit to supply specific quantities of products on scheduled delivery dates, or agree to extend our obligations for certain liabilities such as warranties or indemnification for quality issues or claims of intellectual property infringement. If we are unable to supply the customer as required under the contract, the customer may incur additional production costs, lost revenues due to subsequent delays in their own manufacturing schedule, or quality-related issues. We may be liable for the customer's costs, expenses and damages associated with their claims and we may be obligated to defend the customer against claims of intellectual property infringement and pay the associated legal fees. While we try to minimize the number of contracts which contain such provisions, manage the risks underlying such liabilities, and set caps on our liability exposure, sometimes we are not able to do so. In order to win important designs, avoid losing business to competitors, maintain existing business, or be permitted to bid on new business, we have been, and may in the future be, forced to agree to uncapped liability for such items as intellectual property infringement, product failure, or confidentiality. Such provisions expose us to risk of liability far exceeding the purchase price of the products we sell under such contracts, the lifetime revenues we receive from such products, or various forms of potential consequential damages. Further, where we do not have negotiated contracts with our customers, the terms of our customer's orders may govern the transaction and contain terms that are not favorable to us. These significant additional risks could result in a material adverse impact

on our results of operations and financial condition.

With respect to our pending acquisition of Microsemi, a significant portion of their sales are, or may be derived from U.S. government agencies or customers whose principal sales are to U.S. government agencies. Such sales are subject to significant uncertainties regarding government spending and policy changes. Also, the U.S. government and its contractors may terminate their contracts with Microsemi at any time. Uncertainty with respect to governmental spending and policies, or termination of contracts associated with governmental projects could have a material adverse impact on the revenues and other benefits that we achieve from the Microsemi acquisition. Prior to the Microsemi transaction, Microchip has not derived significant sales from government related customers.

Table of Contents

We must attract and retain qualified personnel to be successful, and competition for qualified personnel can be intense.

Our success depends upon the efforts and abilities of our senior management, engineering, manufacturing and other personnel. The competition for qualified engineering and management personnel can be intense. We may be unsuccessful in retaining our existing key personnel or in attracting and retaining additional key personnel that we require. The loss of the services of one or more of our key personnel or the inability to add key personnel could harm our business. The loss of, or any inability to attract personnel, even if not key personnel, if experienced in sufficient numbers could harm our business. We have no employment agreements with any member of our senior management team.

Fluctuations in foreign currency exchange rates could adversely impact our operating results.

We use forward currency exchange contracts in an attempt to reduce the adverse earnings impact from the effect of exchange rate fluctuations on our non-U.S. dollar net balance sheet exposures. Nevertheless, in periods when the U.S. dollar significantly fluctuates in relation to the non-U.S. currencies in which we transact business, the value of our non-U.S. dollar transactions can have an adverse effect on our results of operations and financial condition. In particular, in periods when a foreign currency significantly declines in value in relation to the U.S. dollar, customers transacting in that foreign currency may find it more difficult to fulfill their previously committed contractual obligations or to undertake new obligations to make payments or purchase products. In periods when the U.S. dollar is significantly declining in relation to the British pound, Euro and Thai baht, the operational costs in our European and Thailand subsidiaries are adversely affected. Although our business has not been materially adversely impacted by recent changes in the value of the U.S. dollar, there can be no assurance as to the future impact that any weakness or strength in the U.S. dollar will have on our business or results of operations.

Interruptions in our information technology systems, or improper handling of data, could adversely affect our business.

We rely on the efficient and uninterrupted operation of complex information technology systems and networks to operate our business. Any significant disruption to our systems or networks, including, but not limited to, new system implementations, computer viruses, security breaches, facility issues, natural disasters, terrorism, war, telecommunication failures or energy blackouts could have a material adverse impact on our operations, sales and operating results. Such disruption could result in a loss of our intellectual property or the release of sensitive competitive information or supplier, customer or employee personal data. Any loss of such information could harm our competitive position, result in a loss of customer confidence, and cause us to incur significant costs to remedy the damages caused by any such disruptions or security breaches. Additionally, any failure to properly manage the collection, handling, transfer or disposal of personal data of employees and customers may result in regulatory penalties, enforcement actions, remediation obligations, litigation, fines and other sanctions.

From time to time, we have experienced verifiable attacks on our data, attempts to breach our security and attempts to introduce malicious software into our IT systems; however, such attacks have not previously resulted in any material damage to us. Were future attacks successful, we may be unaware of the incident, its magnitude, or its effects until significant harm is done. In recent years, we have implemented improvements to our protective measures which are not limited to the following: firewalls, antivirus measures, patches, log monitors, event correlation tools, routine backups with offsite retention of storage media, system audits, data partitioning and routine password modifications. There can be no assurance that such system improvements will be sufficient to prevent or limit the damage from any future cyber attacks or disruptions. Any such attack or disruption could result in additional costs related to rebuilding of our internal systems, defending litigation, responding to regulatory actions, or paying damages. Such attacks or disruptions could have a material adverse impact on our business, operations and financial results.

Third-party service providers, such as wafer foundries, assembly and test contractors, distributors, credit card processors and other vendors have access to certain portions of our and our customers' sensitive data. In the event that these service providers do not properly safeguard the data that they hold, security breaches and loss of data could result. Any such loss of data by our third-party service providers could negatively impact our business, operations and financial results, as well as our relationship with our customers.

Table of Contents

The occurrence of events for which we are self-insured, or which exceed our insurance limits, may adversely affect our profitability and liquidity.

We have insurance contracts with independent insurance companies related to many different types of risk; however, we self-insure for some potentially significant risks and obligations. In these circumstances, we believe that it is more cost effective for us to self-insure certain risks than to pay the high premium costs. The risks and exposures that we self-insure include, but are not limited to certain property, product defects, employment risks, environmental matters, political risks, and intellectual property matters. Should there be a loss or adverse judgment or other decision in an area for which we are self-insured, then our financial condition, results of operations and liquidity may be adversely affected.

If we fail to maintain proper and effective internal control or remediate current or future deficiencies, our ability to produce accurate and timely financial statements could be impaired, which could harm our operating results, our ability to operate our business and investors' views of us.

Ensuring that we have adequate internal financial and accounting controls and procedures so that we can produce accurate financial statements on a timely basis is a costly and time-consuming effort that needs to be re-evaluated frequently. Our internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements in accordance with United States generally accepted accounting principles. We are required to comply with Section 404 of the Sarbanes-Oxley Act of 2002 which requires annual management assessment of the effectiveness of our internal control over financial reporting and a report by our independent auditors. Although we have never identified a material weakness in our internal control over financial reporting, we have from time to time identified significant deficiencies. If we fail to remediate these significant deficiencies or to maintain proper and effective internal control over financial reporting in the future, our ability to produce accurate and timely financial statements could be impaired, which could harm our operating results, harm our ability to operate our business and reduce the trading price of our stock.

We are subject to stringent environmental and other regulations, which may force us to incur significant expenses.

We must comply with all applicable federal, state, local and foreign governmental regulations related to the use, storage, discharge and disposal of toxic, volatile or otherwise hazardous substances used in our products and manufacturing processes. Our failure to comply with applicable regulations could result in fines, suspension of production, cessation of operations or future liabilities. Such environmental regulations have required us in the past, and could require us in the future, to buy costly equipment or to incur significant expenses to comply with such regulations. Our failure to control the use of, or adequately restrict the discharge of, hazardous substances could impact the health of our employees and others and could impact our ability to operate. Such failure could also restrict our ability to ship certain products to certain countries, require us to modify our operations' logistics, or require us to incur other significant costs and expenses. There is a continuing expansion in environmental laws with a focus on reducing or eliminating hazardous substances and substances of high concern in electronic products and shipping materials. These and other future environmental regulations could require us to reengineer certain of our existing products and may make it more expensive for us to manufacture, sell and ship our products. In addition, the number and complexity of laws focused on the energy efficiency of electronic products and accessories, the recycling of electronic products, and the reduction in the quantity and the recycling of packing materials have expanded significantly. It may be difficult for us to timely comply with these laws and we may not have sufficient quantities of compliant products to meet customers' needs, thereby adversely impacting our sales and profitability. We may also have to write off inventory in the event that we hold unsaleable inventory as a result of changes to regulations or customer requirements. We expect these risks and trends to continue. In addition, we anticipate increased customer requirements to meet voluntary criteria related to the reduction or elimination of substances of high concern in our products, energy efficiency measures, and supplier practices associated with sourcing and manufacturing. These

requirements may increase our own costs, as well as those passed on to us by our supply chain.

Customer demands for us to implement business practices that are more stringent than existing legal requirements may reduce our revenue opportunities or cause us to incur higher costs.

Some of our customers and potential customers are requiring that we implement operating practices that are more stringent than what is required by applicable laws with respect to workplace and labor requirements, the type of materials we use in our products, environmental matters or other items. To comply with such requirements, we may have to pass these same operating practices on to our suppliers. Our suppliers may refuse to implement these operating practices, or may charge us more for complying with them. The cost to implement such practices may cause us to incur higher costs and reduce our profitability, and if we choose not to implement such practices, such customers may disqualify us as a supplier, resulting in decreased revenue

Table of Contents

opportunities. Developing, administering, monitoring and auditing these customer-requested practices at our own sites and those in our supply chain will increase our costs and may require that we hire more personnel.

Customer demands and regulations related to conflict-free minerals may force us to incur additional expenses.

As required by the Dodd-Frank Wall Street Reform and Consumer Protection Act, in August 2012, the SEC released investigation, disclosure and reporting requirements regarding the use of "conflict" minerals mined from the Democratic Republic of Congo and adjoining countries and which are necessary to the functionality or production of products. We filed a report on Form SD with the SEC regarding such matters on May 31, 2017. Other countries are considering similar regulations. If we cannot certify that we are using conflict-free minerals, customers may demand that we change the sourcing of minerals and other materials used in the manufacture of our products, even if the costs for compliant minerals and materials significantly increases and availability is limited. If we make changes to materials or suppliers, there will likely be costs associated with qualifying new suppliers and production capacity and quality could be negatively impacted. Our relationships with customers and suppliers may be adversely affected if we are unable to certify that our products are "conflict-free." We have incurred, and expect in the future to incur, additional costs associated with complying with these new disclosure requirements, such as costs related to determining the source of any conflict minerals used in our products. We may also encounter challenges to satisfy those customers who require that all of the components of our products be certified as conflict free in a materially different manner than advocated by the Responsible Minerals Initiative or the Dodd-Frank Wall Street Reform and Consumer Protection Act. If we are not able to meet customer requirements, customers may choose to disqualify us as a supplier and we may have to write off inventory in the event that it cannot be sold.

Regulatory authorities in jurisdictions into which we ship our products could levy fines or restrict our ability to export or transfer products.

A significant portion of our sales are made through the exporting and importing of products. In addition to local jurisdictions' trade regulations, our U.S.-manufactured products or products based on U.S. technology are subject to U.S. laws and regulations governing international trade, including, but not limited to the Foreign Corrupt Practices Act, Export Administration Regulations (EAR), International Traffic in Arms Regulations (ITAR) and trade sanctions against embargoed countries and denied entities administered by the U.S. Department of the Treasury, Office of Foreign Assets Control (OFAC). Licenses or proper license exceptions are required for the shipment of our products to certain countries. A determination by the U.S. or foreign government that we have failed to comply with trade or export regulations or anti-bribery regulations can result in penalties which may include denial of export privileges, fines, civil or criminal penalties, and seizure of products. Such penalties could have a material adverse effect on our business, sales and earnings. Further, a change in these laws and regulations could restrict our ability to transfer product to previously permitted countries, customers, distributors or other third parties. Any one or more of these sanctions or a change in laws or regulations could have a material adverse effect on our business, financial condition and results of operations.

The outcome of future examinations of our income tax returns could have an adverse effect on our results of operations.

We are subject to examination of our income tax returns by the IRS and other tax authorities for fiscal 2005 and later. We are subject to certain income tax examinations in foreign jurisdictions for fiscal 2007 and later.

We regularly assess the likelihood of adverse outcomes resulting from these examinations to determine the adequacy of our provision for income taxes and have reserved for potential adjustments that may result from the current examinations. There can be no assurance that the final determination of any of these or any future examinations will not have an adverse effect on our effective tax rates, financial position and results of operations.

Exposure to greater than anticipated income tax liabilities, changes in tax rules and regulations (including the Act), changes in the interpretation of tax rules and regulations, or unfavorable assessments from tax audits could affect our effective tax rates, financial condition and results of operations

We are a U.S.-based multinational company subject to tax in multiple U.S. and foreign tax jurisdictions. Our income tax obligations could be affected by many factors, including but not limited to changes to our corporate operating structure, intercompany arrangements and tax planning strategies.

Our income tax expense is computed based on tax rates at the time of the respective financial period. Our future effective tax rates, financial condition and results from operations could be unfavorably affected by changes in the tax rates in jurisdictions where our income is earned, by changes in the tax rules and regulations or the interpretation of tax rules and regulations in the jurisdictions in which we do business or by changes in the valuation of our deferred tax assets.

Table of Contents

Currently, a majority of our revenue is generated from customers located outside the U.S., and a substantial portion of our assets, including employees, are located outside of the U.S. Recently enacted U.S. tax legislation will significantly change the taxation of U.S.-based multinational corporations, by, among other things, reducing the U.S. corporate income tax rate, adopting elements of a territorial tax system, assessing a one-time transition tax on earnings of certain foreign subsidiaries that were previously tax deferred, and creating new taxes on certain foreign-sourced earnings. The new legislation is unclear in some respects and will require interpretations and implementing regulations by the Internal Revenue Service, as well as state tax authorities, and the legislation could be subject to potential amendments and technical corrections, any of which could lessen or increase certain adverse impacts of the legislation. A significant portion of our earnings are earned by our subsidiaries outside the U.S. Changes to the taxation of certain foreign earnings resulting from the newly enacted U.S. tax legislation, along with the state tax impact of these changes and potential future cash distributions, will likely have an adverse effect on our effective tax rate. Furthermore, changes to the taxation of undistributed foreign earnings could change our future intentions regarding reinvestment of such earnings. The foregoing items could have a material adverse effect on our business, cash flow, results of operations or financial conditions.

The future trading price of our common stock could be subject to wide fluctuations in response to a variety of factors.

The market price of our common stock has fluctuated significantly in the past and is likely to fluctuate in the future. The future trading price of our common stock could be subject to wide fluctuations in response to a variety of factors, many of which are beyond our control, including, but not limited to:

- quarterly variations in our operating results or the operating results of other technology companies;
- developments with respect to timely completion or financing of our pending acquisition of Microsemi;
- general conditions in the semiconductor industry;
- global economic and financial conditions;
- changes in our financial guidance or our failure to meet such guidance;
- changes in analysts' estimates of our financial performance or buy/sell recommendations;
- any other acquisitions we pursue or complete; and
- actual or anticipated announcements of technical innovations or new products by us or our competitors.

In addition, the stock market has from time to time experienced significant price and volume fluctuations that have affected the market prices for many companies and that often have been unrelated to the operating performance of such companies. These broad market fluctuations and other factors have harmed and may harm the market price of our common stock. Some or all of the foregoing factors could also cause the market price of our convertible debentures to decline or fluctuate substantially.

Anti-takeover defenses in our charter documents and under Delaware law could discourage takeover attempts, which could also reduce the market price of our common stock.

Our certificate of incorporation and bylaws contain provisions that could delay or prevent a change in control of Microchip. These provisions could also make it difficult for stockholders to elect directors that are not nominated by the current members of our board of directors or take other corporate actions, including effecting changes in our management. These provisions include:

- the ability of our board of directors to issue shares of preferred stock and to determine the price and other terms of those shares, including preferences and voting rights, without stockholder approval, which could be used to significantly dilute the ownership of a hostile acquiror;
- the right of our board of directors to elect a director to fill a vacancy created by the expansion of our board of directors or the resignation, death or removal of a director, which prevents stockholders from being able to fill

vacancies on our board of directors;

the requirement that a special meeting of stockholders may be called only by the holders of 50% or more of the combined voting power of all classes of our capital stock, which could delay the ability of our stockholders to force consideration of a proposal or to take action, including the removal of directors;

the ability of our board of directors, by majority vote, to amend the bylaws, which may allow our board of directors to take additional actions to prevent an unsolicited takeover and inhibit the ability of an acquiror to amend the bylaws to facilitate an unsolicited takeover attempt; and

advance notice procedures with which stockholders must comply to nominate candidates to our board of directors or to propose matters to be acted upon at a stockholders' meeting, which may discourage or deter a potential acquiror from conducting a solicitation of proxies to elect the acquiror's own slate of directors or otherwise attempting to obtain control of us.

Table of Contents

In addition, as a Delaware corporation, we are subject to Section 203 of the Delaware General Corporation Law. These provisions may prohibit large stockholders, in particular those owning 15% or more of our outstanding voting stock, from merging or combining with us for a certain period of time. The application of Section 203 also could have the effect of delaying or preventing a change in control of us.

Any of these provisions could, under certain circumstances, depress the market price of our common stock.

As a result of our acquisition activity, our goodwill and intangible assets have increased significantly in recent years and we may in the future incur impairments to goodwill or intangible assets including impairments related to Microsemi following our completion of our acquisition of such company.

When we acquire a business, a substantial portion of the purchase price of the acquisition is allocated to goodwill and other identifiable intangible assets. The amount of the purchase price which is allocated to goodwill is determined by the excess of the purchase price over the net identifiable assets acquired. As of March 31, 2018, we had goodwill of \$2,299.0 million and net intangible assets of \$1,662.0 million. In connection with the completion of our pending acquisition of Microsemi, our balance of goodwill and intangible assets will increase significantly. We review our indefinite-lived intangible assets, including goodwill, for impairment annually in the fourth fiscal quarter or whenever events or changes in circumstances indicate that the carrying amount of those assets is more likely than not impaired. Factors that may be considered in assessing whether goodwill or intangible assets may be impaired include a decline in our stock price or market capitalization, reduced estimates of future cash flows and slower growth rates in our industry. Our valuation methodology for assessing impairment requires management to make judgments and assumptions based on historical experience and to rely heavily on projections of future operating performance. Because we operate in highly competitive environments, projections of our future operating results and cash flows may vary significantly from our actual results. No goodwill impairment charges were recorded in fiscal 2018 or in fiscal 2017. No material intangible asset impairment charges were recorded in fiscal 2018. In fiscal 2017, we recognized \$11.9 million of intangible asset impairment charges. If in future periods, we determine that our goodwill or intangible assets are impaired, we will be required to write down these assets which would have a negative effect on our consolidated financial statements.

Our foreign pension plans are unfunded, and any requirement to fund these plans in the future could negatively affect our cash position and operating capital.

In connection with our acquisition of Atmel, we assumed unfunded defined benefit pension plans that cover certain of our French and German employees. Plan benefits are managed in accordance with local statutory requirements. Benefits are based on years of service and employee compensation levels. The projected benefit obligation totaled \$61.0 million at March 31, 2018. The plans are unfunded in compliance with local statutory regulations, and we have no immediate intention of funding these plans. Benefits are paid when amounts become due, commencing when participants retire. We expect to pay approximately \$0.9 million in fiscal 2019 for benefits earned. Should legislative regulations require complete or partial funding of these plans in the future, it could negatively affect our cash position and operating capital.

From time to time we receive grants from governments, agencies and research organizations. If we are unable to comply with the terms of those grants, we may not be able to receive or recognize grant benefits or we may be required to repay grant benefits previously paid to us and recognize related charges, which would adversely affect our operating results and financial position.

From time to time, we receive economic incentive grants and allowances from European governments, agencies and research organizations targeted at increasing employment at specific locations. The subsidy grant agreements typically contain economic incentive, headcount, capital and research and development expenditure and other covenants that

must be met to receive and retain grant benefits, and these programs can be subjected to periodic review by the relevant governments. Noncompliance by us with the conditions of the grants could result in our forfeiture of all or a portion of any future amounts to be received, as well as the repayment of all or a portion of amounts received to date.

Conversion of our debentures will dilute the ownership interest of our existing stockholders.

The conversion of some or all of our outstanding debentures will dilute the ownership interest of existing stockholders to the extent we deliver common stock upon conversion of the debentures. Upon conversion, we may satisfy our conversion obligation by delivering cash, shares of common stock or any combination, at our option. If upon conversion we elect to deliver cash for the lesser of the conversion value and principal amount of the debentures, we would pay the holder the cash value of the applicable number of shares of our common stock. Upon conversion, we intend to satisfy the lesser of the principal amount or the conversion value of the debentures in cash. If the conversion value of a debenture exceeds the principal amount

Table of Contents

of the debenture, we may also elect to deliver cash in lieu of common stock for the conversion value in excess of the one thousand dollars principal amount (i.e., the conversion spread). There would be no adjustment to the numerator in the net income per common share computation for the cash settled portion of the debentures as that portion of the debt instrument will always be settled in cash. The conversion spread will be included in the denominator for the computation of diluted net income per common share. Any sales in the public market of any common stock issuable upon conversion of our debentures could adversely affect prevailing market prices of our common stock. In addition, the existence of the debentures may encourage short selling by market participants because the conversion of the debentures could be used to satisfy short positions, or anticipated conversion of the debentures into shares of our common stock could depress the price of our common stock.

Climate change regulations and sustained adverse climate change pose regulatory and physical risks that could harm our results of operations or affect the way we conduct business.

Climate change regulations at the federal, state or local level or in international jurisdictions could require us to limit emissions, change our manufacturing processes, obtain substitute materials which may cost more or be less available, increase our investment in control technology for greenhouse gas emissions, fund offset projects or undertake other costly activities. These regulations could significantly increase our costs and restrict our manufacturing operations by virtue of requirements for new equipment. New permits may be required for our current operations, or expansions thereof. Failure to timely receive permits could result in fines, suspension of production, or cessation of operations at one or more facilities. In addition, restrictions on carbon dioxide or other greenhouse gas emissions could result in significant costs such as higher energy costs, and utility companies passing down carbon taxes, emission cap and trade programs and renewable portfolio standards. The cost of complying, or of failing to comply, with these and other climate change and emissions regulations could have an adverse effect on our operating results.

Further, any sustained adverse change in climate could have a direct adverse economic impact on us, such as water and power shortages, and higher costs of water or energy to control the temperature of our facilities. Certain of our operations are located in arid or tropical regions, such as Arizona, Thailand, and the Philippines. Some environmental experts predict that these regions may become vulnerable to storms, severe floods and droughts due to climate change. While we maintain business recovery plans that are intended to allow us to recover from natural disasters or other events that can interrupt our business, we cannot be certain that our plans will protect us from all such disasters or events.

Item 1B. UNRESOLVED STAFF COMMENTS

None.

Table of Contents

Item 2. PROPERTIES

At March 31, 2018, we owned and used the facilities described below:

Location	Approximate Total Sq. Ft.	Uses
Gresham, Oregon	826,500	Wafer Fabrication (Fab 4); R&D Center; Administrative Offices; and Warehousing
Chacherngsao, Thailand	489,000	Assembly and Test; Wafer Probe; Sample Center; Warehousing; and Administrative Offices
Colorado Springs, Colorado	480,000	Manufacturing, Test, Research and Development, Computer and Service Functions, Design and Engineering
Calamba, Philippines	460,000	Wafer Probe, Test, Warehousing and Administrative Offices
Tempe, Arizona	457,000	Wafer Fabrication (Fab 2); R&D Center; Administrative Offices; and Warehousing
Chandler, Arizona	415,000	Executive and Administrative Offices; Wafer Probe; R&D Center; Sales and Marketing; and Computer and Service Functions
Bangalore, India	281,000	Research and Development; Sales and Marketing Support, and Administrative Offices
Chacherngsao, Thailand	215,000	Assembly and Test
Rousset, France	170,000	Design, Engineering, Test and Administrative
Nantes, France	77,000	Design, Engineering, Test and Probe, Administrative and Warehousing
Shanghai, China	21,000	Research and Development; Marketing Support, and Administrative Offices
Hsinchu, Taiwan	15,000	Design, Engineering and Administrative

The following additional facilities are under construction for additional office space: In Chandler, Arizona an additional 260,000 sq. ft, in Chennai, India an additional 96,000 sq. ft., and in Heilbronn, Germany an additional 46,000 sq. ft.

In addition to the facilities we own, we lease several research and development facilities and sales offices in North America, Europe and Asia. Our aggregate monthly rental payment for our leased facilities is approximately \$2.2 million.

We currently believe that our existing facilities are suitable and will be adequate to meet our requirements for at least the next 12 months.

See page 45 for a discussion of the capacity utilization of our manufacturing facilities.

Item 3. LEGAL PROCEEDINGS

Refer to Note 12 to our consolidated financial statements for information regarding legal proceedings.

Item 4. MINE SAFETY DISCLOSURES

Not applicable.

Table of Contents

PART II

Item 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

Our common stock is traded on the NASDAQ Global Market under the symbol "MCHP." The following table sets forth the quarterly high and low closing prices of our common stock as reported by NASDAQ for our last two fiscal years.

Fiscal 2018	High	Low	Fiscal 2017	High	Low
First Quarter	\$86.86	\$72.15	First Quarter	\$52.99	\$47.16
Second Quarter	\$91.01	\$75.81	Second Quarter	\$62.80	\$49.49
Third Quarter	\$95.36	\$85.47	Third Quarter	\$66.18	\$58.41
Fourth Quarter	\$100.24	\$79.90	Fourth Quarter	\$74.52	\$62.59

Stock Price Performance Graph

The following graph and table show a comparison of the five-year cumulative total stockholder return, calculated on a dividend reinvestment basis, for Microchip Technology Incorporated, the Standard & Poor's (S&P) 500 Stock Index, and the Philadelphia Semiconductor Index.

Comparison of 5 year Cumulative Total Return*

*\$100 invested on March 31, 2013 in stock or index, including reinvestment of dividends
Fiscal year ending March 31.

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Table of Contents

	Cumulative Total Return					
	March 2013	March 2014	March 2015	March 2016	March 2017	March 2018
Microchip Technology Incorporated	100.00	134.48	141.94	144.39	226.37	285.15
S&P 500 Stock Index	100.00	121.86	137.37	139.82	163.83	186.75
Philadelphia Semiconductor Index	100.00	129.22	150.41	150.14	210.77	290.57

Data acquired by Research Data Group, Inc. (www.researchdatagroup.com)

On May 9, 2018, there were approximately 566 holders of record of our common stock. This figure does not reflect beneficial ownership of shares held in nominee names.

We have been declaring and paying quarterly cash dividends on our common stock since the third quarter of fiscal 2003. Our total cash dividends paid were \$337.5 million, \$315.4 million and \$291.1 million in fiscal 2018, fiscal 2017 and fiscal 2016, respectively. The following table sets forth our quarterly cash dividends per common share and the total amount of the dividend payment for each quarter in fiscal 2018 and fiscal 2017 (amounts in millions, except per share amounts):

Fiscal 2018	Dividends per Common Share	Aggregate Amount of Dividend Payment	Fiscal 2017	Dividends per Common Share	Aggregate Amount of Dividend Payment
First Quarter	\$ 0.3615	\$ 82.9	First Quarter	\$ 0.3595	\$ 77.2
Second Quarter	\$ 0.3620	\$ 84.5	Second Quarter	\$ 0.3600	\$ 77.6
Third Quarter	\$ 0.3625	\$ 84.9	Third Quarter	\$ 0.3605	\$ 78.0
Fourth Quarter	\$ 0.3630	\$ 85.2	Fourth Quarter	\$ 0.3610	\$ 82.6

On May 8, 2018, we declared a quarterly cash dividend of \$0.3635 per share, which will be paid on June 4, 2018 to stockholders of record on May 21, 2018 and the total amount of such dividend is expected to be approximately \$85.6 million. Our Board of Directors is free to change our dividend practices at any time and to increase or decrease the dividend paid, or not to pay a dividend, on our common stock on the basis of our results of operations, financial condition, cash requirements and future prospects, and other factors deemed relevant by our Board of Directors. Our current intent is to provide for ongoing quarterly cash dividends depending upon market conditions and our results of operations.

Refer to "Item 12 - Security Ownership Of Certain Beneficial Owners And Management And Related Stockholder Matters," at page 53 below, for the information required by Item 201(d) of Regulation S-K with respect to securities authorized for issuance under our equity compensation plans at March 31, 2018.

Issuer Purchases of Equity Securities

In May 2015, our Board of Directors authorized the repurchase of up to 20.0 million shares of our common stock in the open market or in privately negotiated transactions. As of March 31, 2016, we had repurchased 8.6 million shares under this authorization for approximately \$363.8 million. In January 2016, our Board of Directors authorized an increase in the existing share repurchase program to 15.0 million shares of common stock from the approximately 11.4 million shares remaining under the prior authorization. There were no repurchases of common stock during fiscal 2018. There is no expiration date associated with this repurchase program.

Table of Contents

Item 6. SELECTED FINANCIAL DATA

You should read the following selected consolidated financial data for the five-year period ended March 31, 2018 in conjunction with our consolidated financial statements and notes thereto and "Management's Discussion and Analysis of Financial Condition and Results of Operations" included in Items 7 and 8 of this Form 10-K. Our consolidated statements of income data for each of the years in the three-year period ended March 31, 2018, and the balance sheet data as of March 31, 2018 and 2017, are derived from our audited consolidated financial statements, included in Item 8 of this Form 10-K. The statement of income data for the years ended March 31, 2015 and 2014 and balance sheet data as of March 31, 2016, 2015 and 2014 have been derived from our audited consolidated financial statements not included herein (in the tables below all amounts are in millions, except per share data).

Statement of Income Data:

	Year ended March 31,				
	2018	2017 ⁽¹⁾	2016 ⁽¹⁾	2015	2014
Net sales	\$3,980.8	\$3,407.8	\$2,173.3	\$2,147.0	\$1,931.2
Cost of sales	1,560.1	1,650.6	967.8	917.5	802.5
Research and development	529.3	545.3	372.6	349.5	305.0
Selling, general and administrative	452.1	499.8	301.7	274.8	267.3
Amortization of acquired intangible assets	485.5	337.7	174.9	176.8	94.5
Special charges and other, net ⁽²⁾	17.5	98.6	4.0	2.8	3.0
Operating income	936.3	275.8	352.3	425.6	458.9
Losses on equity method investments	(0.2)	) (0.2)	) (0.3)	) (0.3)	) (0.2)
Interest income	22.0	3.1	24.4	19.5	16.5
Interest expense	(199.0)	) (146.3)	) (104.0)	) (62.0)	) (48.7)
Loss on settlement of convertible debt ⁽³⁾	(16.0)	) (43.9)	) —	) (50.6)) —
Other income (loss), net	(5.8)	) 1.3	8.9	13.7	5.9
Income from continuing operations before income taxes	737.3	89.8	281.3	345.9	432.4
Income tax (benefit) provision	481.9	(80.8)	) (42.6)	) (19.4)	) 37.1
Net income from continuing operations	255.4	170.6			