
UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549
FORM 10-Q

(Mark One)



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

For the quarterly period ended May 30, 2019

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 1-10658

Micron Technology, Inc.
(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation or organization)

8000 S. Federal Way, Boise, Idaho

(Address of principal executive offices)

Registrant's telephone number, including area code

75-1618004

(IRS Employer Identification No.)

83716-9632

(Zip Code)

(208) 368-4000

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

Title of each class	Trading symbol	Name of each exchange on which registered
Common Stock, par value \$0.10 per share	MU	NASDAQ Global Select Market
Common Stock Purchase Rights	MU	NASDAQ Global Select Market

Indicate by check mark 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 every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes ☒ No ☐

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

Large Accelerated Filer ☒ Accelerated Filer ☐ Non-Accelerated Filer ☐ 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 ☒

The number of outstanding shares of the registrant's common stock as of June 19, 2019 was 1,103,803,379.

Micron Technology, Inc., including its consolidated subsidiaries, is an industry leader in innovative memory and storage solutions. Through our global brands – Micron®, Crucial®, and Ballistix® – our broad portfolio of high-performance memory and storage technologies, including DRAM, NAND, NOR Flash, and 3D XPoint memory, is transforming how the world uses information to enrich life. Backed by 40 years of technology leadership, our memory and storage solutions enable disruptive trends, including artificial intelligence, machine learning, and autonomous vehicles, in key market segments like data center, networking, automotive, industrial, mobile, graphics, and client.

Micron, Crucial, Ballistix, any associated logos, and all other Micron trademarks are the property of Micron. 3D XPoint is a trademark of Intel in the United States and/or other countries. Other product names or trademarks that are not owned by Micron are for identification purposes only and may be the registered or unregistered trademarks of their respective owners.

Definitions of Commonly Used Terms

As used herein, "we," "our," "us," and similar terms include Micron Technology, Inc. and our consolidated subsidiaries, unless the context indicates otherwise. Abbreviations, terms, or acronyms are commonly used or found in multiple locations throughout this report and include the following:

Term	Definition	Term	Definition
2022 Term Loan B	Senior Secured Term Loan B due 2022	Micron	Micron Technology, Inc. (Parent Company)
2024 Notes	4.64% Senior Unsecured Notes due 2024	MMJ	Micron Memory Japan, G.K.
2025 Notes	5.50% Senior Unsecured Notes due 2025	MMJ Group	MMJ and its subsidiaries
2026 Notes	4.98% Senior Unsecured Notes due 2026	MMT	Micron Memory Taiwan Co., Ltd.
2029 Notes	5.33% Senior Unsecured Notes due 2029	MTTW	Micron Technology Taiwan, Inc.
2032D Notes	3.13% Convertible Senior Notes due 2032	Qimonda	Qimonda AG
2033F Notes	2.13% Convertible Senior Notes due 2033	R&D	Research and Development
2043G Notes	3.00% Convertible Senior Notes due 2043	SG&A	Selling, General, and Administrative
IMFT	IM Flash Technologies, LLC	SSD	Solid-State Drive
Huawei	Huawei Technologies Co., Ltd.	TLC	Triple-Level Cell
Inotera	Inotera Memories, Inc.	VIE	Variable Interest Entity
Intel	Intel Corporation		

The following Micron subsidiaries appear throughout this report:

Micron Consumer Products Group, Inc.	Micron Semiconductor Products, Inc.
Micron Europe Limited	Micron Semiconductor (Shanghai) Co. Ltd.
Micron Semiconductor B.V.,	Micron Semiconductor (Xi'an) Co., Ltd.
Micron Semiconductor (Deutschland) GmbH	

Forward-Looking Statements

This Form 10-Q contains trend information and other forward-looking statements that involve a number of risks and uncertainties. Forward-looking statements include, but are not limited to, statements such as those made regarding our expected 3D XPoint™ development activities with Intel; the amount we expect to pay to purchase Intel's interest in IMFT; our expectation, from time to time, to engage in additional financing transactions; the sufficiency of our cash and investments, cash flows from operations, and available financing to meet our requirements at least through the next 12 months; capital spending in 2019; and capital commitments. We are under no obligation to update these forward-looking statements. Our actual results could differ materially from our historical results and those discussed in the forward-looking statements. Factors that could cause actual results to differ materially include, but are not limited to, those identified in "Part II, Other Information – Item 1A. Risk Factors."

PART I. FINANCIAL INFORMATION

ITEM 1. FINANCIAL STATEMENTS

MICRON TECHNOLOGY, INC.

CONSOLIDATED STATEMENTS OF OPERATIONS

(in millions, except per share amounts)

(Unaudited)

	Quarter ended		Nine months ended	
	May 30, 2019	May 31, 2018	May 30, 2019	May 31, 2018
Revenue	\$ 4,788	\$ 7,797	\$ 18,536	\$ 21,951
Cost of goods sold	2,960	3,074	9,229	9,211
Gross margin	1,828	4,723	9,307	12,740
Selling, general, and administrative	206	211	624	598
Research and development	606	603	1,818	1,574
Other operating (income) expense, net	6	(44)	139	(49)
Operating income	1,010	3,953	6,726	10,617
Interest income	52	36	148	86
Interest expense	(29)	(80)	(89)	(292)
Other non-operating income (expense), net	(317)	(193)	(392)	(450)
	716	3,716	6,393	9,961
Income tax (provision) benefit	135	109	(622)	(148)
Equity in net income (loss) of equity method investees	—	(2)	1	(1)
Net income	851	3,823	5,772	9,812
Net income attributable to noncontrolling interests	(11)	—	(20)	(2)
Net income attributable to Micron	\$ 840	\$ 3,823	\$ 5,752	\$ 9,810
Earnings per share				
Basic	\$ 0.76	\$ 3.30	\$ 5.15	\$ 8.53
Diluted	0.74	3.10	5.01	7.96
Number of shares used in per share calculations				
Basic	1,105	1,159	1,117	1,150
Diluted	1,129	1,235	1,148	1,233

See accompanying notes to consolidated financial statements.

MICRON TECHNOLOGY, INC.

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

(in millions)

(Unaudited)

	Quarter ended		Nine months ended	
	May 30, 2019	May 31, 2018	May 30, 2019	May 31, 2018
Net income	\$ 851	\$ 3,823	\$ 5,772	\$ 9,812
Other comprehensive income (loss), net of tax				
Gains (losses) on investments	3	—	6	(2)
Gains (losses) on derivative instruments	—	(21)	(6)	(6)
Foreign currency translation adjustments	—	1	(1)	1
Pension liability adjustments	(1)	(1)	(1)	—
Other comprehensive income (loss)	2	(21)	(2)	(7)
Total comprehensive income	853	3,802	5,770	9,805
Comprehensive income attributable to noncontrolling interests	(11)	—	(20)	(2)
Comprehensive income attributable to Micron	\$ 842	\$ 3,802	\$ 5,750	\$ 9,803

See accompanying notes to consolidated financial statements.

MICRON TECHNOLOGY, INC.

CONSOLIDATED BALANCE SHEETS

(in millions, except par value amounts)

(Unaudited)

As of	May 30, 2019	August 30, 2018
Assets		
Cash and equivalents	\$ 5,157	\$ 6,506
Short-term investments	1,532	296
Receivables	3,257	5,478
Inventories	4,905	3,595
Other current assets	215	164
Total current assets	15,066	16,039
Long-term marketable investments	1,167	473
Property, plant, and equipment	27,138	23,672
Intangible assets	339	331
Deferred tax assets	817	1,022
Goodwill	1,228	1,228
Other noncurrent assets	533	611
Total assets	<u>\$ 46,288</u>	<u>\$ 43,376</u>
Liabilities and equity		
Accounts payable and accrued expenses	\$ 3,494	\$ 4,374
Current debt	1,346	859
Other current liabilities	557	521
Total current liabilities	5,397	5,754
Long-term debt	3,563	3,777
Noncurrent unearned government incentives	622	227
Other noncurrent liabilities	417	354
Total liabilities	9,999	10,112
Commitments and contingencies		
Redeemable convertible notes	1	3
Redeemable noncontrolling interest	98	97
Micron shareholders' equity		
Common stock, \$0.10 par value, 3,000 shares authorized, 1,180 shares issued and 1,104 outstanding (1,170 shares issued and 1,161 outstanding as of August 30, 2018)	118	117
Additional capital	8,217	8,201
Retained earnings	30,201	24,395
Treasury stock, 76 shares held (9 shares as of August 30, 2018)	(3,221)	(429)
Accumulated other comprehensive income	8	10
Total Micron shareholders' equity	35,323	32,294
Noncontrolling interests in subsidiaries	867	870
Total equity	36,190	33,164
Total liabilities and equity	<u>\$ 46,288</u>	<u>\$ 43,376</u>

See accompanying notes to consolidated financial statements.

MICRON TECHNOLOGY, INC.

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)

(Unaudited)

	Micron Shareholders								
	Common Stock					Accumulated	Total Micron	Noncontrolling	Total
	Number of Shares	Amount	Additional Capital	Retained Earnings	Treasury Stock	Other Comprehensive Income (Loss)	Shareholders' Equity	Interests in Subsidiaries	Equity
Balance at August 30, 2018	1,170	\$ 117	\$ 8,201	\$ 24,395	\$ (429)	\$ 10	\$ 32,294	\$ 870	\$33,164
Cumulative effect of adopting new accounting standards				92			92		92
Net income				3,293			3,293	—	3,293
Other comprehensive income (loss), net						(15)	(15)		(15)
Stock issued under stock plans	3	—	15				15		15
Stock-based compensation expense			61				61		61
Repurchase of stock	(1)	—	108	(11)	(1,933)		(1,836)		(1,836)
Reclassification of redeemable convertible notes, net			1				1		1
Conversion of convertible notes			(36)				(36)		(36)
Balance at November 29, 2018	1,172	\$ 117	\$ 8,350	\$ 27,769	\$(2,362)	\$ (5)	\$ 33,869	\$ 870	\$34,739
Net income				1,619			1,619	5	1,624
Other comprehensive income (loss), net						11	11		11
Stock issued under stock plans	7	1	76				77		77
Stock-based compensation expense			57				57		57
Repurchase of stock	(1)	—	(5)	(24)	(702)		(731)		(731)
Acquisitions of noncontrolling interest							—	(12)	(12)
Reclassification of redeemable convertible notes, net			1				1		1
Conversion of convertible notes			(336)				(336)		(336)
Balance at February 28, 2019	1,178	\$ 118	\$ 8,143	\$ 29,364	\$(3,064)	\$ 6	\$ 34,567	\$ 863	\$35,430
Net income				840			840	9	849
Other comprehensive income (loss), net						2	2		2
Stock issued under stock plans	2	—	20				20		20
Stock-based compensation expense			58				58		58
Repurchase of stock	—	—	—	(3)	(157)		(160)		(160)
Acquisitions of noncontrolling interest			1				1	(5)	(4)
Conversion of convertible notes			(5)				(5)		(5)
Balance at May 30, 2019	1,180	\$ 118	\$ 8,217	\$ 30,201	\$(3,221)	\$ 8	\$ 35,323	\$ 867	\$36,190

See accompanying notes to consolidated financial statements.

MICRON TECHNOLOGY, INC.

CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(in millions)

(Unaudited)

	Micron Shareholders								
	Common Stock		Additional Capital	Retained Earnings	Treasury Stock	Accumulated Other Comprehensive Income (Loss)	Total Micron Shareholders' Equity	Noncontrolling Interests in Subsidiaries	Total Equity
	Number of Shares	Amount							
Balance at August 31, 2017	1,116	\$ 112	\$ 8,287	\$ 10,260	\$ (67)	\$ 29	\$ 18,621	\$ 849	\$ 19,470
Net income				2,678			2,678	—	2,678
Other comprehensive income (loss), net						(5)	(5)		(5)
Contributions from noncontrolling interests								18	18
Stock issued in public offering	34	3	1,363				1,366		1,366
Stock issued under stock plans	9	1	105				106		106
Stock-based compensation expense			51				51		51
Repurchase of stock	(1)	—	(90)		—		(90)		(90)
Reclassification of redeemable convertible notes, net			3				3		3
Conversion of convertible notes			(271)		67		(204)		(204)
Balance at November 30, 2017	1,158	\$ 116	\$ 9,448	\$ 12,938	\$ —	\$ 24	\$ 22,526	\$ 867	\$ 23,393
Net income				3,309			3,309	2	3,311
Other comprehensive income (loss), net						19	19		19
Stock issued under stock plans	8	—	82				82		82
Stock-based compensation expense			52				52		52
Repurchase of stock	(1)	—	(44)		—		(44)		(44)
Settlement of capped calls			313		(313)		—		—
Reclassification of redeemable convertible notes, net			5				5		5
Conversion of convertible notes			(252)				(252)		(252)
Balance at March 1, 2018	1,165	\$ 116	\$ 9,604	\$ 16,247	\$ (313)	\$ 43	\$ 25,697	\$ 869	\$ 26,566
Net income				3,823			3,823	—	3,823
Other comprehensive income (loss), net						(21)	(21)		(21)
Stock issued under stock plans	4	1	81				82		82
Stock-based compensation expense			48				48		48
Repurchase of stock	—	—	(4)		—		(4)		(4)
Settlement of capped calls			116		(116)		—		—
Reclassification of redeemable convertible notes, net			9				9		9
Conversion and repurchase of convertible notes			(985)				(985)		(985)
Balance at May 31, 2018	1,169	\$ 117	\$ 8,869	\$ 20,070	\$ (429)	\$ 22	\$ 28,649	\$ 869	\$ 29,518

See accompanying notes to consolidated financial statements.

MICRON TECHNOLOGY, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS

(in millions)

(Unaudited)

Nine months ended	May 30, 2019	May 31, 2018
Cash flows from operating activities		
Net income	\$ 5,772	\$ 9,812
Adjustments to reconcile net income to net cash provided by operating activities		
Depreciation expense and amortization of intangible assets	4,008	3,474
Amortization of debt discount and other costs	39	78
Loss on debt prepayments, repurchases, and conversions	386	386
Stock-based compensation	176	151
Change in operating assets and liabilities		
Receivables	2,373	(1,177)
Inventories	(1,315)	(246)
Accounts payable and accrued expenses	(703)	151
Deferred income taxes, net	195	(216)
Other	25	(168)
Net cash provided by operating activities	<u>10,956</u>	<u>12,245</u>
Cash flows from investing activities		
Expenditures for property, plant, and equipment	(7,752)	(6,628)
Purchases of available-for-sale securities	(3,814)	(606)
Proceeds from sales of available-for-sale securities	1,271	569
Proceeds from government incentives	668	171
Proceeds from maturities of available-for-sale securities	626	219
Other	16	188
Net cash provided by (used for) investing activities	<u>(8,985)</u>	<u>(6,087)</u>
Cash flows from financing activities		
Payments to acquire treasury stock	(2,727)	(69)
Repayments of debt	(2,376)	(6,767)
Payments on equipment purchase contracts	(54)	(170)
Proceeds from issuance of debt	1,800	969
Proceeds from issuance of stock	112	1,636
Other	(85)	(42)
Net cash provided by (used for) financing activities	<u>(3,330)</u>	<u>(4,443)</u>
Effect of changes in currency exchange rates on cash, cash equivalents, and restricted cash	6	(4)
Net increase (decrease) in cash, cash equivalents, and restricted cash	(1,353)	1,711
Cash, cash equivalents, and restricted cash at beginning of period	6,587	5,216
Cash, cash equivalents, and restricted cash at end of period	<u>\$ 5,234</u>	<u>\$ 6,927</u>

See accompanying notes to consolidated financial statements.

MICRON TECHNOLOGY, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

(All tabular amounts in millions, except per share amounts)

(Unaudited)

Basis of Presentation

The accompanying consolidated financial statements include the accounts of Micron and our consolidated subsidiaries and have been prepared in accordance with accounting principles generally accepted in the United States of America consistent in all material respects with those applied in our Annual Report on Form 10-K for the year ended August 30, 2018, except for changes related to recently adopted accounting standards. See "Recently Adopted Accounting Standards" note. Prior year information is presented in accordance with the accounting guidance in effect during that period and has not been recast for recently adopted accounting standards. In the opinion of our management, the accompanying unaudited consolidated financial statements contain all necessary adjustments, consisting of a normal recurring nature, to fairly state the financial information set forth herein. Certain reclassifications have been made to prior period amounts to conform to current period presentation.

Our fiscal year is the 52 or 53-week period ending on the Thursday closest to August 31. Fiscal years 2019 and 2018 each contain 52 weeks. All period references are to our fiscal periods unless otherwise indicated. These interim financial statements should be read in conjunction with the consolidated financial statements and accompanying notes included in our Annual Report on Form 10-K for the year ended August 30, 2018.

Variable Interest Entities

We have interests in entities that are VIEs. If we are the primary beneficiary of a VIE, we are required to consolidate it. To determine if we are the primary beneficiary, we evaluate whether we have the power to direct the activities that most significantly impact the VIE's economic performance and the obligation to absorb losses or the right to receive benefits of the VIE that could potentially be significant to the VIE. Our evaluation includes identification of significant activities and an assessment of our ability to direct those activities based on governance provisions and arrangements to provide or receive product and process technology, product supply, operations services, equity funding, financing, and other applicable agreements and circumstances. Our assessments of whether we are the primary beneficiary of our VIEs require significant assumptions and judgments.

Unconsolidated VIEs

PTI Xi'an: Powertech Technology Inc. Xi'an ("PTI Xi'an") is a wholly-owned subsidiary of Powertech Technology Inc. ("PTI") and was created to provide assembly services to us at our manufacturing site in Xi'an, China. We do not have an equity interest in PTI Xi'an. PTI Xi'an is a VIE because of the terms of its service agreement with us and its dependency on PTI to finance its operations. We do not have the power to direct the activities of PTI Xi'an that most significantly impact its economic performance, primarily because we do not have governance rights. Therefore, we do not consolidate PTI Xi'an. In connection with our assembly services with PTI, as of May 30, 2019 and August 30, 2018, we had net property, plant, and equipment of \$53 million and \$63 million, respectively, and capital lease obligations of \$51 million and \$63 million, respectively.

Consolidated VIE

IMFT: IMFT is a VIE because all of its costs are passed to us and its other member, Intel, through product purchase agreements and because IMFT is dependent upon us or Intel for additional cash requirements. The primary activities of IMFT are driven by the constant introduction of product and process technology. Because we perform a significant majority of the technology development, we have the power to direct its key activities. We consolidate IMFT because we have the power to direct the activities of IMFT that most significantly impact its economic performance and because we have the obligation to absorb losses and the right to receive benefits from IMFT that could potentially be significant to it. In January 2019, we exercised our option to acquire Intel's interest in IMFT and, in the third quarter of 2019, Intel set the closing date to occur on October 31, 2019. (See "Equity – Noncontrolling Interests in Subsidiaries – IMFT" note.)

Recently Adopted Accounting Standards

In October 2016, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") 2016-16 – *Intra-Entity Transfers Other Than Inventory* ("ASU 2016-16"), which requires an entity to recognize the income tax consequences of an intra-entity transfer of an asset other than inventory when the transfer occurs. We adopted this ASU in the first quarter of 2019 under the modified retrospective method and, in connection therewith, made certain adjustments as noted in the table below.

In January 2016, the FASB issued ASU 2016-01 – *Recognition and Measurement of Financial Assets and Financial Liabilities*, which provides guidance for the recognition, measurement, presentation, and disclosure of financial assets and liabilities. We adopted this ASU in the first quarter of 2019 under the modified retrospective method, with prospective adoption for amendments related to equity securities without readily determinable fair values. The adoption of this ASU did not have a material impact on our financial statements.

In May 2014, the FASB issued ASU 2014-09 – *Revenue from Contracts with Customers* (as amended, "ASC 606"), which supersedes nearly all existing revenue recognition guidance under generally accepted accounting principles in the United States. The core principal of ASC 606 is that an entity should recognize revenue when it transfers control of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. ASC 606 also requires additional disclosure about the nature, amount, timing, and uncertainty of revenue and cash flows arising from customer contracts, including significant judgments and changes in judgments, and assets recognized from costs incurred to obtain or fulfill a contract. We adopted ASC 606 in the first quarter of 2019 under the modified retrospective method and, in connection therewith, made certain adjustments as noted in the table below. We applied ASC 606 to contracts with customers that had not yet been completed as of the adoption date.

The following table summarizes the effects of adopting ASU 2016-16 and ASC 606:

	Ending Balance as of August 30, 2018	ASU 2016-16	ASC 606	Opening Balance as of August 31, 2018
Receivables	\$ 5,478	\$ —	\$ 114	\$ 5,592
Inventories	3,595	—	(5)	3,590
Other current assets	164	(14)	30	180
Deferred tax assets	1,022	56	(92)	986
Other current liabilities	521	—	(4)	517
Other noncurrent liabilities	354	—	1	355
Retained earnings	24,395	42	50	24,487

As a result of the adoption of ASC 606, the opening balances as of August 31, 2018 for receivables, other current assets, and other current liabilities increased due to the reclassification of allowances for rebates, pricing adjustments, and returns to conform to the new presentation requirements. In addition, the margin from previously deferred sales to distributors was reclassified from other current liabilities to retained earnings. The tax effects of the adoption of ASC 606 were recorded primarily as a reduction of net deferred tax assets, substantially as a result of recognizing income for accounting purposes earlier under ASC 606 than for tax purposes in various jurisdictions.

The effects of ASC 606 to our consolidated statement of operations and balance sheet were as follows:

	Quarter ended May 30, 2019			Nine months ended May 30, 2019		
	As Reported	Adjustments	Amounts Without the Effects of Adoption of ASC 606	As Reported	Adjustments	Amounts Without the Effects of Adoption of ASC 606
Revenue	\$ 4,788	\$ 43	\$ 4,831	\$ 18,536	\$ (72)	\$ 18,464
Cost of goods sold	2,960	4	2,964	9,229	(65)	9,164
Interest expense	(29)	2	(27)	(89)	5	(84)
Income tax (provision) benefit	135	(8)	127	(622)	(13)	(635)
Net income attributable to Micron	840	33	873	5,752	(15)	5,737

As of May 30, 2019	As Reported	Adjustments	Amounts Without the Effects of Adoption of ASC 606
Receivables	\$ 3,257	\$ (112)	\$ 3,145
Other current assets	215	(41)	174
Deferred tax assets	817	82	899
Accounts payable and accrued expenses	3,494	3	3,497
Other current liabilities	557	(8)	549
Other noncurrent liabilities	417	(1)	416
Retained earnings	30,201	(65)	30,136

Recently Issued Accounting Standards Not Yet Adopted

In November 2018, the FASB issued ASU 2018-18 – *Collaborative Arrangements*, which clarifies that certain transactions between collaborative arrangement participants should be accounted for as revenue when the collaborative arrangement participant is a customer in the context of a unit of account and precludes recognizing as revenue consideration received from a collaborative arrangement participant if the participant is not a customer. This ASU will be effective for us in the first quarter of 2021 with early adoption permitted. This ASU requires retrospective adoption to the date we adopted ASC 606, August 31, 2018, by recognizing a cumulative-effect adjustment to the opening balance of retained earnings of the earliest annual period presented. We are evaluating the timing and effects of our adoption of this ASU on our financial statements.

In June 2016, the FASB issued ASU 2016-13 – *Measurement of Credit Losses on Financial Instruments*, which requires a financial asset (or a group of financial assets) measured on the basis of amortized cost to be presented at the net amount expected to be collected. This ASU requires that the income statement reflect the measurement of credit losses for newly recognized financial assets as well as the increases or decreases of expected credit losses that have taken place during the period. This ASU requires that credit losses of debt securities designated as available-for-sale be recorded through an allowance for credit losses and limits the credit loss to the amount by which fair value is below amortized cost. This ASU will be effective for us in the first quarter of 2021 with adoption permitted as early as the first quarter of 2020. This ASU requires modified retrospective adoption, with prospective adoption for debt securities for which an other-than-temporary impairment had been recognized before the effective date. We are evaluating the timing and effects of our adoption of this ASU on our financial statements.

In February 2016, the FASB issued ASU 2016-02 – *Leases*, which amends a number of aspects of lease accounting, including requiring lessees to recognize operating leases with a term greater than one year on their balance sheet as a right-of-use asset and corresponding liability, measured at the present value of lease payments. This ASU, as amended, will be effective for us in the first quarter of 2020 with early adoption permitted and allows for either a modified retrospective adoption or a retrospective adoption by recognizing a cumulative-effect adjustment to the opening balance of retained earnings in the period of adoption. The adoption of this ASU will result in an increase to our consolidated balance sheets for these right-of-use assets

and corresponding liabilities. We are evaluating the timing and other effects of our adoption of this ASU on our financial statements.

Cash and Investments

All of our marketable debt and equity investments were classified as available-for-sale as of the dates noted below. Cash and equivalents and the fair values of our available-for-sale investments, which approximated amortized costs, were as follows:

As of	May 30, 2019				August 30, 2018			
	Cash and Equivalents	Short-term Investments	Long-term Marketable Investments ⁽¹⁾	Total Fair Value	Cash and Equivalents	Short-term Investments	Long-term Marketable Investments ⁽¹⁾	Total Fair Value
Cash	\$ 3,171	\$ —	\$ —	\$ 3,171	\$ 3,223	\$ —	\$ —	\$ 3,223
Level 1 ⁽²⁾								
Money market funds	1,208	—	—	1,208	2,443	—	—	2,443
Level 2 ⁽³⁾								
Certificates of deposit	732	749	5	1,486	806	11	2	819
Corporate bonds	—	516	704	1,220	3	172	272	447
Government securities	11	131	200	342	5	63	103	171
Asset-backed securities	—	83	258	341	—	34	96	130
Commercial paper	35	53	—	88	26	16	—	42
	5,157	\$ 1,532	\$ 1,167	\$ 7,856	6,506	\$ 296	\$ 473	\$ 7,275
Restricted cash ⁽⁴⁾	77				81			
Cash, cash equivalents, and restricted cash	\$ 5,234				\$ 6,587			

⁽¹⁾ The maturities of long-term marketable securities range from one to four years.

⁽²⁾ The fair value of Level 1 securities is measured based on quoted prices in active markets for identical assets.

⁽³⁾ The fair value of Level 2 securities is measured using information obtained from pricing services, which obtain quoted market prices for similar instruments, non-binding market consensus prices that are corroborated by observable market data, or various other methodologies, to determine the appropriate value at the measurement date. We perform supplemental analyses to validate information obtained from these pricing services. No adjustments were made to the fair values indicated by such pricing information as of May 30, 2019 or August 30, 2018.

⁽⁴⁾ Restricted cash is included in other noncurrent assets and primarily consisted of balances related to the MMJ Creditor Payments. The restrictions on the MMJ Creditor Payments lapse upon approval by the trustees and/or Tokyo District Court.

Gross realized gains and losses from sales of available-for-sale securities were not material for any period presented. As of May 30, 2019, there were no available-for-sale securities that had been in a loss position for longer than 12 months.

Receivables

As of	May 30, 2019	August 30, 2018
Trade receivables	\$ 2,848	\$ 5,056
Income and other taxes	202	161
Other	207	261
	\$ 3,257	\$ 5,478

Inventories

As of	May 30, 2019	August 30, 2018
Finished goods	\$ 853	\$ 815
Work in process	3,537	2,357
Raw materials and supplies	515	423
	<u>\$ 4,905</u>	<u>\$ 3,595</u>

Property, Plant, and Equipment

As of	May 30, 2019	August 30, 2018
Land	\$ 352	\$ 345
Buildings	10,167	8,680
Equipment ⁽¹⁾	42,626	38,249
Construction in progress ⁽²⁾	1,893	1,162
Software	767	655
	<u>55,805</u>	<u>49,091</u>
Accumulated depreciation	<u>(28,667)</u>	<u>(25,419)</u>
	<u>\$ 27,138</u>	<u>\$ 23,672</u>

⁽¹⁾ Included costs related to equipment not placed into service of \$2.24 billion and \$1.73 billion, as of May 30, 2019 and August 30, 2018, respectively.

⁽²⁾ Included building-related construction, tool installation, and software costs for assets not yet placed into service.

Intangible Assets and Goodwill

As of	May 30, 2019		August 30, 2018	
	Gross Amount	Accumulated Amortization	Gross Amount	Accumulated Amortization
Amortizing assets				
Product and process technology	\$ 574	\$ (235)	\$ 567	\$ (344)
Non-amortizing assets				
In-process R&D	—	—	108	—
Total intangible assets	<u>\$ 574</u>	<u>\$ (235)</u>	<u>\$ 675</u>	<u>\$ (344)</u>
Goodwill	<u>\$ 1,228</u>		<u>\$ 1,228</u>	

In the first nine months of 2019 and 2018, we capitalized \$71 million and \$27 million, respectively, for product and process technology with weighted-average useful lives of 8 years and 11 years, respectively, and placed in service \$108 million of in-process R&D in the first quarter of 2019, which is being amortized on a straight-line basis over six years. Expected amortization expense is \$18 million for the remainder of 2019, \$68 million for 2020, \$59 million for 2021, \$48 million for 2022, and \$43 million for 2023.

Accounts Payable and Accrued Expenses

As of	May 30, 2019	August 30, 2018
Accounts payable	\$ 1,336	\$ 1,692
Property, plant, and equipment payables	1,160	1,238
Salaries, wages, and benefits	565	841
Income and other taxes	254	402
Other	179	201
	<u>\$ 3,494</u>	<u>\$ 4,374</u>

Debt

As of	May 30, 2019					August 30, 2018		
	Stated Rate	Effective Rate	Net Carrying Amount			Net Carrying Amount		
			Current	Long- Term	Total	Current	Long- Term	Total
IMFT Member Debt ⁽¹⁾	N/A	N/A	\$ 858	\$ —	\$ 858	\$ —	\$ 1,009	\$ 1,009
Capital lease obligations	N/A	4.20%	233	415	648	310	536	846
MMJ Creditor Payments	N/A	9.76%	187	—	187	309	183	492
2022 Term Loan B	4.24%	4.65%	5	716	721	5	720	725
2024 Notes	4.64%	4.76%	—	597	597	—	—	—
2025 Notes	5.50%	5.56%	—	516	516	—	515	515
2026 Notes	4.98%	5.07%	—	497	497	—	—	—
2029 Notes	5.33%	5.40%	—	696	696	—	—	—
2032D Notes	3.13%	6.33%	—	126	126	—	132	132
2033F Notes	2.13%	4.93%	63	—	63	235	—	235
2043G Notes	3.00%	6.76%	—	—	—	—	682	682
			<u>\$ 1,346</u>	<u>\$ 3,563</u>	<u>\$ 4,909</u>	<u>\$ 859</u>	<u>\$ 3,777</u>	<u>\$ 4,636</u>

⁽¹⁾ IMFT Member Debt was classified as current as of May 30, 2019 as a result of exercising our option to acquire Intel's interest in IMFT.

Senior Unsecured Notes

On February 6, 2019, we issued our 2024 Notes, 2026 Notes, and 2029 Notes in a public offering. Issuance costs for these notes were \$11 million. We may redeem some or all of these notes at our option prior to their maturity at a redemption price equal to accrued interest plus the present value of the remaining scheduled payments and we may redeem some or all of these notes at par between one and three months prior to maturity.

Each of the 2024 Notes, 2026 Notes, and 2029 Notes contain covenants that, among other things, limit, in certain circumstances, our ability and/or the ability of our restricted subsidiaries (which are generally domestic subsidiaries in which we own at least 80% of the voting stock) to (1) create or incur certain liens, (2) enter into certain sale and lease-back transactions; and (3) consolidate with or merge with or into, or convey, transfer or lease all or substantially all of our assets, to another entity. These covenants are subject to a number of limitations and exceptions. Additionally, if a change in control triggering event occurs, as defined in the indenture governing such notes, we will be required to offer to purchase such notes at 101% of the outstanding aggregate principal amount plus accrued interest up to the purchase date.

Convertible Senior Notes

On February 8, 2019, we notified holders of our 2043G Notes that we would redeem all of the outstanding 2043G Notes on March 13, 2019. Holders could elect to convert these notes prior to March 12, 2019 at a conversion rate of 34.2936 shares of our common stock per \$1,000 of principal amount. In connection with our notice, we made an irrevocable election to settle any

conversions in cash and, as a result, we reclassified \$336 million from equity to a derivative debt liability. Holders converted substantially all of the 2043G Notes and, on March 13, 2019, we paid \$1.43 billion to settle the conversions. We incurred losses of \$316 million and \$84 million in the third and second quarters of 2019, respectively, in connection with these transactions.

Holders of our convertible notes may convert their notes during any calendar quarter if the closing price of our common stock for at least 20 trading days in the 30 consecutive trading days ending on the last trading day of the preceding calendar quarter is more than 130% of the conversion price. As of May 30, 2019, the trading price of our common stock was higher than the conversion prices of our 2032D Notes and our 2033F Notes and, as a result, the aggregate conversion value of \$641 million exceeded the aggregate principal amount of \$198 million by \$443 million.

Available Revolving Credit Facility

On November 27, 2018, we increased the amount available to draw under our existing revolving credit facility expiring in July 2023 from \$2.0 billion to \$2.5 billion. As of May 30, 2019, there were no outstanding amounts drawn under this facility.

Debt Activity

When we receive a notice of conversion for any of our convertible notes and elect to settle in cash any portion of the conversion obligation in excess of the principal amount, the cash settlement obligations become derivative debt liabilities subject to mark-to-market accounting treatment based on the volume-weighted-average price of our common stock over a period of 20 consecutive trading days. Accordingly, at the date of our election to settle a conversion in cash, we reclassify the fair value of the equity component of the converted notes from additional capital to derivative debt liability within current debt in our consolidated balance sheet.

The following table presents the effects of conversions, settlements, and issuance of debt in the first nine months of 2019:

Nine months ended May 30, 2019	Increase (Decrease) in Principal	Increase (Decrease) in Carrying Value	Increase (Decrease) in Cash	Decrease in Equity	Gain (Loss)
Settled conversions					
2032D Notes	\$ (10)	\$ (9)	\$ (35)	\$ (28)	\$ 2
2033F Notes	(43)	(173)	(184)	(23)	12
2043G Notes	(1,019)	(691)	(1,426)	(326)	(400)
Issuances					
2024 Notes	600	597	597	—	—
2026 Notes	500	497	497	—	—
2029 Notes	700	695	695	—	—
	<u>\$ 728</u>	<u>\$ 916</u>	<u>\$ 144</u>	<u>\$ (377)</u>	<u>\$ (386)</u>

Contingencies

We have accrued a liability and charged operations for the estimated costs of adjudication or settlement of various asserted and unasserted claims existing as of the balance sheet date, including those described below. We are currently a party to other legal actions arising from the normal course of business, none of which is expected to have a material adverse effect on our business, results of operations, or financial condition.

Patent Matters

As is typical in the semiconductor and other high-tech industries, from time to time, others have asserted, and may in the future assert, that our products or manufacturing processes infringe upon their intellectual property rights.

On August 12, 2014, MLC Intellectual Property, LLC ("MLC") filed a patent infringement action against Micron in the United States District Court for the Northern District of California. The complaint alleges that Micron infringes a single U.S. patent and seeks damages, attorneys' fees, and costs. The matter is scheduled for trial beginning on August 12, 2019.

On November 21, 2014, Elm 3DS Innovations, LLC ("Elm") filed a patent infringement action against Micron; Micron Semiconductor Products, Inc.; and Micron Consumer Products Group, Inc. in the U.S. District Court for the District of Delaware. On March 27, 2015, Elm filed an amended complaint against the same entities. The amended complaint alleges that unspecified semiconductor products of ours that incorporate multiple stacked die infringe 13 U.S. patents and seeks damages, attorneys' fees, and costs.

On December 15, 2014, Innovative Memory Solutions, Inc. ("IMS") filed a patent infringement action against Micron in the U.S. District Court for the District of Delaware. The complaint alleges that a variety of our NAND products infringe eight U.S. patents and seeks damages, attorneys' fees, and costs. On July 23, 2018, IMS served a patent infringement complaint on Micron Semiconductor (Deutschland) GmbH and Micron Europe Limited alleging that products including our SSDs infringe a European patent. The complaint seeks unspecified damages and an order forbidding Micron Semiconductor (Deutschland) GmbH and Micron Europe Limited from offering to sell, using, and importing the accused products. On August 31, 2018, Micron was served with a complaint filed by IMS in Shenzhen Intermediate People's Court in Guangdong Province, China. The complaint alleges that certain of our NAND flash products infringe a Chinese patent. The complaint seeks an order requiring Micron to stop manufacturing, using, selling, and offering for sale the accused products in China, and to pay damages of 1 million Chinese yuan plus expenses.

On March 19, 2018, Micron Semiconductor (Xi'an) Co., Ltd. ("MXA") was served with a patent infringement complaint filed by Fujian Jinhua Integrated Circuit Co., Ltd. ("Jinhua") in the Fuzhou Intermediate People's Court in Fujian Province, China (the "Fuzhou Court"). On April 3, 2018, Micron Semiconductor (Shanghai) Co. Ltd. ("MSS") was served with the same complaint. The complaint alleges that MXA and MSS infringe a Chinese patent by manufacturing and selling certain Crucial DDR4 DRAM modules. The complaint seeks an order requiring MXA and MSS to destroy inventory of the accused products and equipment for manufacturing the accused products in China, to stop manufacturing, using, selling, and offering for sale the accused products in China, and to pay damages of 98 million Chinese yuan plus court fees incurred.

On March 21, 2018, MXA was served with a patent infringement complaint filed by United Microelectronics Corporation ("UMC") in the Fuzhou Court. On April 3, 2018, MSS was served with the same complaint. The complaint alleges that MXA and MSS infringe a Chinese patent by manufacturing and selling certain Crucial DDR4 DRAM modules. The complaint seeks an order requiring MXA and MSS to destroy inventory of the accused products and equipment for manufacturing the accused products in China, to stop manufacturing, using, selling, and offering for sale the accused products in China, and to pay damages of 90 million Chinese yuan plus court fees incurred.

On April 3, 2018, MSS was served with another patent infringement complaint filed by Jinhua and two additional complaints filed by UMC in the Fuzhou Court. The three additional complaints allege that MSS infringes three Chinese patents by manufacturing and selling certain Crucial MX300 SSDs and certain GDDR5 memory chips. The two complaints filed by UMC each seek an order requiring MSS to destroy inventory of the accused products and equipment for manufacturing the accused products in China, to stop manufacturing, using, selling, and offering for sale the accused products in China, and to pay damages for each complaint of 90 million Chinese yuan plus court fees incurred. The complaint filed by Jinhua seeks an order requiring MSS to destroy inventory of the accused products and equipment for manufacturing the accused products in China, to stop manufacturing, using, selling, and offering for sale the accused products in China, and to pay damages of 98 million Chinese yuan plus court fees incurred. On October 9, 2018, UMC withdrew its complaint that alleged MSS infringed a Chinese patent by manufacturing and selling certain GDDR5 memory chips.

On July 5, 2018, MXA and MSS were notified that the Fuzhou Court granted a preliminary injunction against those entities that enjoins them from manufacturing, selling, or importing certain Crucial and Ballistic-branded DRAM modules and solid-state drives in China. The affected products make up slightly more than 1% of our annualized revenues. We are complying with the ruling and have requested the Fuzhou Court to reconsider or stay its decision.

Among other things, the above lawsuits pertain to substantially all of our DRAM, NAND, and other memory and storage products we manufacture, which account for a significant portion of our revenue.

Qimonda

On January 20, 2011, Dr. Michael Jaffé, administrator for Qimonda's insolvency proceedings, filed suit against Micron and Micron Semiconductor B.V., our Netherlands subsidiary ("Micron B.V."), in the District Court of Munich, Civil Chamber. The complaint seeks to void, under Section 133 of the German Insolvency Act, a share purchase agreement between Micron B.V. and Qimonda signed in fall 2008, pursuant to which Micron B.V. purchased substantially all of Qimonda's shares of Inotera (the "Inotera Shares"), representing approximately 18% of Inotera's outstanding shares as of May 30, 2019, and seeks an order

requiring us to re-transfer those shares to the Qimonda estate. The complaint also seeks, among other things, to recover damages for the alleged value of the joint venture relationship with Inotera and to terminate, under Sections 103 or 133 of the German Insolvency Code, a patent cross-license between us and Qimonda entered into at the same time as the share purchase agreement.

Following a series of hearings with pleadings, arguments, and witnesses on behalf of the Qimonda estate, on March 13, 2014, the court issued judgments: (1) ordering Micron B.V. to pay approximately \$1 million in respect of certain Inotera Shares sold in connection with the original share purchase; (2) ordering Micron B.V. to disclose certain information with respect to any Inotera Shares sold by it to third parties; (3) ordering Micron B.V. to disclose the benefits derived by it from ownership of the Inotera Shares, including in particular, any profits distributed on the Inotera Shares and all other benefits; (4) denying Qimonda's claims against Micron for any damages relating to the joint venture relationship with Inotera; and (5) determining that Qimonda's obligations under the patent cross-license agreement are canceled. In addition, the court issued interlocutory judgments ordering, among other things: (1) that Micron B.V. transfer to the Qimonda estate the Inotera Shares still owned by Micron B.V. and pay to the Qimonda estate compensation in an amount to be specified for any Inotera Shares sold to third parties; and (2) that Micron B.V. pay the Qimonda estate as compensation an amount to be specified for benefits derived by Micron B.V. from ownership of the Inotera Shares. The interlocutory judgments have no immediate, enforceable effect on us, and, accordingly, we expect to be able to continue to operate with full control of the Inotera Shares subject to further developments in the case. We have filed a notice of appeal, and the parties have submitted briefs to the appeals court.

Antitrust Matters

On April 27, 2018, a complaint was filed against Micron and other DRAM suppliers in the U.S. District Court for the Northern District of California. Subsequently two substantially identical cases were filed in the same court. The lawsuits purport to be on behalf of a nationwide class of indirect purchasers of DRAM products. The complaints assert claims based on alleged price-fixing of DRAM products under federal and state law during the period from June 1, 2016 to February 1, 2018, and seek treble monetary damages, costs, interest, attorneys' fees, and other injunctive and equitable relief.

On June 26, 2018, a complaint was filed against Micron and other DRAM suppliers in the U.S. District Court for the Northern District of California. Subsequently four substantially identical cases were filed in the same court. The lawsuits purport to be on behalf of a nationwide class of direct purchasers of DRAM products. The complaints assert claims based on alleged price-fixing of DRAM products under federal and state law during the period from June 1, 2016 to February 1, 2018, and seek treble monetary damages, costs, interest, attorneys' fees, and other injunctive and equitable relief.

Additionally, six cases have been filed in the following Canadian courts: Superior Court of Quebec, the Federal Court of Canada, the Ontario Superior Court of Justice, and the Supreme Court of British Columbia. The substantive allegations in these cases are similar to those asserted in the cases filed in the United States.

On May 15, 2018, the Chinese State Administration for Market Regulation ("SAMR") notified Micron that it was investigating potential collusion and other anticompetitive conduct by DRAM suppliers in China. On May 31, 2018, SAMR made unannounced visits to our sales offices in Beijing, Shanghai, and Shenzhen to seek certain information as part of its investigation. We are cooperating with SAMR in its investigation.

Securities Matters

On January 23, 2019, a complaint was filed against Micron and two of our officers, Sanjay Mehrotra and David Zinsner, in the U.S. District Court for the Southern District of New York. The lawsuit purports to be brought on behalf of a class of purchasers of our stock during the period from June 22, 2018 through November 19, 2018. Subsequently two substantially similar cases were filed in the same court adding one of our former officers, Ernie Maddock, as a defendant and alleging a class action period from September 26, 2017 through November 19, 2018. The separate cases were joined, and a consolidated amended complaint was filed on June 15, 2019. The consolidated amended complaint alleges that defendants committed securities fraud through misrepresentations and omissions about purported anticompetitive behavior in the DRAM industry and seek compensatory and punitive damages, fees, interest, costs, and other appropriate relief.

On March 5, 2019, a shareholder derivative complaint was filed in the U.S. District Court for the District of Delaware, allegedly on behalf of and for the benefit of Micron, against certain current and former officers and directors of Micron for alleged breaches of their fiduciary duties and other violations of law. The allegations are based on, among other things, purported false and misleading statements regarding anticompetitive behavior in the DRAM industry. The complaint seeks damages, fees, interest, costs, and other appropriate relief.

Other

On December 5, 2017, Micron filed a complaint against UMC and Jinhua in the U.S. District Court for the Northern District of California. The complaint alleges that UMC and Jinhua violated the Defend Trade Secrets Act, the civil provisions of the Racketeer Influenced and Corrupt Organizations Act, and California's Uniform Trade Secrets Act by misappropriating Micron's trade secrets and other misconduct. Micron's complaint seeks damages, restitution, disgorgement of profits, injunctive relief, and other appropriate relief.

On June 13, 2019, current Micron employee Chris Manning filed a putative class action lawsuit on behalf of Micron employees subject to the Idaho Claim Act who earned a performance-based bonus after the conclusion of fiscal year 2018 whose performance rating was calculated based upon a mandatory percentage distribution range of performance ratings. On behalf of himself and the putative class, Manning asserts claims for violation of the Idaho Wage Claim Act, breach of contract, breach of the covenant of good faith and fair dealing, and fraud.

In the normal course of business, we are a party to a variety of agreements pursuant to which we may be obligated to indemnify the other party. It is not possible to predict the maximum potential amount of future payments under these types of agreements due to the conditional nature of our obligations and the unique facts and circumstances involved in each particular agreement. Historically, our payments under these types of agreements have not had a material adverse effect on our business, results of operations, or financial condition.

We are unable to predict the outcome of the patent matters, the Qimonda matter, antitrust matters, securities matters, and other matters noted above and therefore cannot estimate the range of possible loss. A determination that our products or manufacturing processes infringe the intellectual property rights of others or entering into a license agreement covering such intellectual property could result in significant liability and/or require us to make material changes to our products and/or manufacturing processes. Any of the foregoing, as well as the resolution of any other legal matter noted above, could have a material adverse effect on our business, results of operations, or financial condition.

Equity

Micron Shareholders' Equity

Common Stock Repurchases: Our Board of Directors has authorized the discretionary repurchase of up to \$10 billion of our outstanding common stock beginning in our fiscal 2019. We may purchase shares on a discretionary basis through open-market purchases, block trades, privately-negotiated transactions, derivative transactions, and/or pursuant to Rule 10b5-1 trading plans, subject to market conditions and our ongoing determination of the best use of available cash. The repurchase authorization does not obligate us to acquire any common stock.

In the third quarter and first nine months of 2019, we repurchased 4 million shares of our common stock for \$157 million and 67 million shares of our common stock for \$2.66 billion, respectively, under an accelerated share repurchase agreement, Rule 10b5-1 plans, and through open market repurchases. The shares were recorded as treasury stock.

Noncontrolling Interests in Subsidiaries

As of	May 30, 2019		August 30, 2018	
	Balance	Percentage	Balance	Percentage
IMFT	\$ 867	49%	\$ 853	49%
Other	—	—	17	Various
	<u>\$ 867</u>		<u>\$ 870</u>	

IMFT: Since 2006, we have owned 51% of IMFT, a joint venture between us and Intel. IMFT is governed by a Board of Managers, for which the number of managers appointed by each member varies based on the members' respective ownership interests. IMFT manufactures semiconductor products exclusively for its members under a long-term supply agreement at prices approximating cost. In the first quarter of 2018, IMFT discontinued production of NAND and subsequent to that time has manufactured 3D XPoint memory. In the fourth quarter of 2018, we announced that we and Intel will no longer jointly develop 3D XPoint technology beyond the second generation. We expect development of the second generation of 3D XPoint technology to be substantially completed in the first quarter of 2020. IMFT sales to Intel were \$184 million and \$531 million

for the third quarter and first nine months of 2019, respectively, and were \$114 million and \$341 million for the third quarter and first nine months of 2018, respectively.

In January 2019, we exercised our option to acquire Intel's interest in IMFT and, in the third quarter of 2019, Intel set the closing date to occur on October 31, 2019. At closing, we expect to pay Intel approximately \$1.4 billion in cash for Intel's noncontrolling interest in IMFT and IMFT Member Debt. As of May 30, 2019, current debt included \$858 million of IMFT Member Debt. Subsequent to setting the closing date, Intel notified us of its election to receive supply from IMFT from the closing date through April 2020 at a volume equal to approximately 50% of their volume from IMFT in the six-month period prior to closing.

IMFT's capital requirements are generally determined based on an annual plan approved by the members, and capital contributions to IMFT are requested as needed. Capital requests are made to the members in proportion to their then-current ownership interest. Members may elect to not contribute their proportional share, and in such event, the contributing member may elect to contribute any amount of the capital request, either in the form of an equity contribution or member debt financing. Under the supply agreement, the members have rights and obligations to the capacity of IMFT in proportion to their investment, including member debt financing. Any capital contribution or member debt financing results in a proportionate adjustment to the sharing of output on an eight-month lag. Members pay their proportionate share of fixed costs associated with IMFT's capacity.

Creditors of IMFT have recourse only to IMFT's assets and do not have recourse to any other of our assets. The following table presents the assets and liabilities of IMFT included in our consolidated balance sheets:

As of	May 30, 2019	August 30, 2018
Assets		
Cash and equivalents	\$ 184	\$ 91
Receivables	125	126
Inventories	122	114
Other current assets	5	8
Total current assets	436	339
Property, plant, and equipment	2,352	2,641
Other noncurrent assets	37	45
Total assets	<u>\$ 2,825</u>	<u>\$ 3,025</u>
Liabilities		
Accounts payable and accrued expenses	\$ 106	\$ 138
Current debt	865	20
Other current liabilities	41	9
Total current liabilities	1,012	167
Long-term debt	54	1,064
Other noncurrent liabilities	23	74
Total liabilities	<u>\$ 1,089</u>	<u>\$ 1,305</u>

Amounts exclude intercompany balances that were eliminated in our consolidated balance sheets.

Fair Value Measurements

The estimated fair values of our convertible and other notes in the table below were determined based on Level 2 inputs, and together with the carrying value of our outstanding debt instruments (excluding the carrying value of equity and mezzanine equity components of our convertible notes) were as follows:

As of	May 30, 2019		August 30, 2018	
	Fair Value	Carrying Value	Fair Value	Carrying Value
Notes and MMJ Creditor Payments	\$ 4,165	\$ 4,072	\$ 2,798	\$ 2,741
Convertible notes	643	189	3,124	1,049

Derivative Instruments

	Gross Notional Amount	Fair Value of	
		Current Assets ⁽¹⁾	Current Liabilities ⁽²⁾
As of May 30, 2019			
Derivative instruments with hedge accounting designation			
Cash flow currency hedges	\$ 190	\$ 1	\$ —
Derivative instruments without hedge accounting designation			
Non-designated currency hedges	2,029	2	(12)
		<u>\$ 3</u>	<u>\$ (12)</u>
As of August 30, 2018			
Derivative instruments with hedge accounting designation			
Cash flow currency hedges	\$ 538	\$ —	\$ (13)
Derivative instruments without hedge accounting designation			
Non-designated currency hedges	1,919	14	(10)
Convertible notes settlement obligation ⁽³⁾		—	(167)
		<u>14</u>	<u>(177)</u>
		<u>\$ 14</u>	<u>\$ (190)</u>

⁽¹⁾ Included in receivables – other.

⁽²⁾ Included in accounts payable and accrued expenses – other for forward contracts and in current debt for convertible notes settlement obligations.

⁽³⁾ The notional amount of convertible notes settlement obligations as of August 30, 2018 was 3 million shares of our common stock.

Derivative Instruments with Hedge Accounting Designation

We utilize currency forward contracts that generally mature within 12 months to hedge our exposure to changes in currency exchange rates. Currency forward contracts are measured at fair value based on market-based observable inputs including currency exchange spot and forward rates, interest rates, and credit-risk spreads (Level 2). We do not use derivative instruments for speculative purposes.

Cash Flow Hedges: We utilize cash flow hedges for our exposure from changes in currency exchange rates for certain capital expenditures. For derivative instruments designated as cash flow hedges, the effective portion of the realized and unrealized gains or losses on derivatives is included as a component of accumulated other comprehensive income. Amounts in accumulated other comprehensive income are reclassified into earnings in the same line items and in the same periods in

which the underlying transactions affect earnings. For the periods presented prior to the second quarter of 2018, the ineffective and excluded portion of the realized and unrealized gain or loss was included in other non-operating income (expense). As a result of adopting ASU 2017-12, beginning in the second quarter of 2018, the excluded portion of such amounts is included in the same line item in which the underlying transactions affect earnings and the ineffective portion of the realized and unrealized gains or losses on derivatives is included as a component of accumulated other comprehensive income.

We recognized gains of \$1 million and losses of \$5 million for the third quarter and first nine months of 2019, respectively, and losses of \$23 million and \$6 million for the third quarter and first nine months of 2018, respectively, in accumulated other comprehensive income from the effective portion of cash flow hedges. Neither the amount excluded from hedge effectiveness nor the reclassifications from accumulated other comprehensive income to earnings were material in the third quarters or first nine months of 2019 or 2018. The amounts from cash flow hedges included in accumulated other comprehensive income that are expected to be reclassified into earnings in the next 12 months were also not material.

Fair Value Hedges: In the second and third quarters of 2018, we utilized fair value hedges for our exposure from changes in currency exchange rates for certain monetary assets and liabilities. For derivative forward contracts designated as fair value hedges, hedge effectiveness was determined by the change in the fair value of the undiscounted spot rate of the forward contract. The changes in fair values of hedge instruments attributed to changes in undiscounted spot rates were recognized in other non-operating income (expense). The time value associated with hedge instruments is excluded from the assessment of the effectiveness of hedges and was recognized on a straight-line basis over the life of hedges to other non-operating income (expense). Amounts recorded to other comprehensive income (loss) for the third quarter and first nine months of 2018 were not material. The effects of fair value hedges on our consolidated statements of operations are included in other non-operating income (expense) and were as follows:

	Quarter ended May 31, 2018	Nine months ended May 31, 2018
Gain (loss) on remeasurement of hedged assets and liabilities	\$ 28	\$ (28)
Gain (loss) on derivatives designated as hedging instruments	(28)	28
Amortization of amounts excluded from hedge effectiveness	(13)	(32)
	<u>\$ (13)</u>	<u>\$ (32)</u>

Derivative Instruments without Hedge Accounting Designation

Currency Derivatives: We generally utilize a rolling hedge strategy with currency forward contracts that mature within three months to hedge our exposures of monetary assets and liabilities from changes in currency exchange rates. At the end of each reporting period, monetary assets and liabilities denominated in currencies other than the U.S. dollar are remeasured into U.S. dollars and the associated outstanding forward contracts are marked to market. Currency forward contracts are valued at fair values based on the middle of bid and ask prices of dealers or exchange quotations (Level 2). Realized and unrealized gains and losses on derivative instruments without hedge accounting designation as well as the changes in the underlying monetary assets and liabilities from changes in currency exchange rates are included in other non-operating income (expense). For derivative instruments without hedge accounting designation, we recognized losses of \$23 million in the third quarter and first nine months of 2019, and losses of \$52 million in the third quarter of 2018, which offset \$52 million of gains recognized during the first six months of 2018.

Convertible Notes Settlement Obligations: For settlement obligations associated with our convertible notes subject to mark-to-market accounting treatment, the fair values of the underlying derivative settlement obligations were initially determined using the Black-Scholes option valuation model (Level 2), which requires inputs of stock price, expected stock-price volatility, estimated option life, risk-free interest rate, and dividend rate. The subsequent measurement amounts were based on the volume-weighted-average trading price of our common stock (Level 2). (See "Debt" note.) We recognized gains of \$11 million and losses of \$55 million in the third quarter and first nine months of 2019, respectively, and losses of \$119 million and \$143 million for the third quarter and first nine months of 2018, respectively, in other non-operating income (expense), net for the changes in fair value of the derivative settlement obligations.

Equity Plans

As of May 30, 2019, 113 million shares of our common stock were available for future awards under our equity plans.

Stock Options

Stock options granted and assumptions used in the Black-Scholes option valuation model were as follows:

	Quarter ended		Nine months ended	
	May 30, 2019	May 31, 2018	May 30, 2019	May 31, 2018
Stock options granted	—	—	—	2
Weighted-average grant-date fair value per share	—	\$ 24.14	\$ 19.50	\$ 18.61
Average expected life in years	—	5.4	5.4	5.5
Weighted-average expected volatility	—	45%	44%	44%
Weighted-average risk-free interest rate	—	2.8%	2.9%	2.2%
Expected dividend yield	—	0.0%	0.0%	0.0%

Restricted Stock and Restricted Stock Units ("Restricted Stock Awards")

Restricted Stock Awards activity is summarized as follows:

	Quarter ended		Nine months ended	
	May 30, 2019	May 31, 2018	May 30, 2019	May 31, 2018
Restricted stock award shares granted	1	—	7	4
Weighted-average grant-date fair value per share	\$ 40.00	\$ 53.77	\$ 39.83	\$ 42.14

Employee Stock Purchase Plan ("ESPP")

Our first ESPP offering period ended in January 2019 and we issued 1 million shares to employees at a purchase price per share of \$32.50 under the ESPP. Assumptions used in the Black-Scholes option valuation model for the offering period beginning February 2019 were as follows:

Weighted-average grant-date fair value per share	\$ 10.92
Average expected life in years	0.5
Weighted-average expected volatility	47%
Weighted-average risk-free interest rate	2.5%
Expected dividend yield	0.0%

Stock-based Compensation Expense

	Quarter ended		Nine months ended	
	May 30, 2019	May 31, 2018	May 30, 2019	May 31, 2018
Stock-based compensation expense by caption				
Cost of goods sold	\$ 24	\$ 20	\$ 73	\$ 62
Selling, general, and administrative	18	14	55	48
Research and development	16	14	48	41
	<u>\$ 58</u>	<u>\$ 48</u>	<u>\$ 176</u>	<u>\$ 151</u>
Stock-based compensation expense by type of award				
Restricted stock awards	\$ 44	\$ 35	\$ 127	\$ 107
Stock options	6	13	25	44
Employee Stock Purchase Plan	8	—	24	—
	<u>\$ 58</u>	<u>\$ 48</u>	<u>\$ 176</u>	<u>\$ 151</u>

Income tax benefits related to share-based payment arrangements were \$4 million and \$57 million for the third quarter and first nine months of 2019, respectively, and \$26 million and \$142 million for the third quarter and first nine months of 2018, respectively. Income tax benefits related to share-based compensation for the first quarter of 2018 were offset by an increase in the U.S. valuation allowance. As of May 30, 2019, \$385 million of total unrecognized compensation costs for unvested awards, before the effect of any future forfeitures, was expected to be recognized through the third quarter of 2023, resulting in a weighted-average period of 1.3 years.

Revenue and Contract Liabilities

Our revenues are primarily recognized at a point in time, when control of the promised goods is transferred to our customers, in an amount that reflects the consideration we expect to be entitled to in exchange for those goods. Contracts with our customers are generally short-term in duration at fixed, negotiated prices with payment generally due shortly after delivery. We estimate a liability for returns using the expected value method based on historical rates of return. In addition, we generally offer price protection to our distributors, which is a form of variable consideration that decreases the transaction price. We estimate the amount of consideration we expect to be entitled to from sales to distributors, using the expected value method, based on historical price adjustments and current pricing trends. Differences between the estimated and actual amounts are recognized as adjustments to revenue. (See "Segment and Other Information" note for disclosure of disaggregated revenue.)

Contract Liabilities

As of	May 30, 2019	Opening Balance as of August 31, 2018
Contract liabilities from customer advances	\$ 117	\$ 235
Other contract liabilities	96	113
	<u>\$ 213</u>	<u>\$ 348</u>

Our contract liabilities are for advance payments received from customers to secure product in future periods and for other arrangements where we have received amounts in advance of satisfying performance obligations and are reported in the accompanying consolidated balance sheets within other current liabilities and other noncurrent liabilities. Revenue and interest expense associated with contract liabilities for the time value of advance payments was not material in any period presented. As of May 30, 2019, our future performance obligations beyond one year were not material.

Changes in contract liabilities for the first nine months of 2019 were as follows:

Contract liabilities balance as of August 31, 2018	\$	348
Revenue recognized from beginning balance		(211)
Additions and other activity		76
Contract liabilities balance as of May 30, 2019	\$	213

Contract liabilities increase as a result of receiving new advance payments from customers and decrease as revenue is recognized from customers purchasing product under advance payment arrangements. Additions and other activity included new customer advances, payments received from license and other arrangements in advance of performance, and interest accrued for financing components on advance payments. Revenue recognized for the first nine months of 2019 from the beginning balance included \$183 million from shipments against customer advances and \$28 million from meeting other performance obligations.

Consideration Payable to Customers

As of May 30, 2019, other current liabilities included \$303 million for estimates of consideration payable to customers, including estimates for pricing adjustments and returns.

Research and Development

We share the cost of certain product and process development activities with development partners. Our R&D expenses were reduced by \$6 million and \$59 million for the third quarter and first nine months of 2019, respectively, and by \$53 million and \$167 million for the third quarter and first nine months of 2018, respectively, pursuant to reimbursements under these arrangements.

In the second quarter of 2018, we and Intel agreed to independently develop subsequent generations of 3D NAND. Our 3D NAND joint development agreement with Intel was substantially completed in the third quarter of 2019. In the fourth quarter of 2018, we announced that we and Intel will no longer jointly develop 3D XPoint technology beyond the second generation. We expect development of the second generation of 3D XPoint technology to be substantially completed in the first quarter of 2020.

Other Operating (Income) Expense, Net

	Quarter ended		Nine months ended	
	May 30, 2019	May 31, 2018	May 30, 2019	May 31, 2018
Restructure and asset impairments	\$ 9	\$ 8	\$ 93	\$ 21
Other	(3)	(52)	46	(70)
	<u>\$ 6</u>	<u>\$ (44)</u>	<u>\$ 139</u>	<u>\$ (49)</u>

Restructure and asset impairments primarily relate to our continued emphasis to centralize certain key functions. As of May 30, 2019 and August 30, 2018, other current liabilities included \$23 million and \$12 million, respectively, for such restructure activities. Subsequent to the end of the third quarter of 2019, we finalized the sale of our 200mm fabrication facility in Singapore and expect to recognize a gain of approximately \$120 million in the fourth quarter of 2019.

Other Non-Operating Income (Expense), Net

	Quarter ended		Nine months ended	
	May 30, 2019	May 31, 2018	May 30, 2019	May 31, 2018
Loss on debt prepayments, repurchases, and conversions	\$ (317)	\$ (168)	\$ (386)	\$ (386)
Loss from changes in currency exchange rates	(1)	(24)	(9)	(60)
Other	1	(1)	3	(4)
	<u>\$ (317)</u>	<u>\$ (193)</u>	<u>\$ (392)</u>	<u>\$ (450)</u>

Income Taxes

On December 22, 2017, the United States enacted comprehensive tax legislation, commonly referred to as the Tax Cuts and Jobs Act (the "Tax Act"), which imposed a one-time transition tax in 2018 (the "Repatriation Tax") and, beginning in 2019, created a new minimum tax on certain foreign earnings (the "Foreign Minimum Tax"). SEC Staff Accounting Bulletin No. 118 ("SAB 118") allows the use of provisional amounts (reasonable estimates) if the analyses of the impacts of the Tax Act have not been completed when financial statements are issued. During the first quarter of 2019, we finalized the computations of the income tax effects of the Tax Act. As such, in accordance with SAB 118, our accounting for the effects of the Tax Act is complete.

Our income tax (provision) benefit consisted of the following:

	Quarter ended		Nine months ended	
	May 30, 2019	May 31, 2018	May 30, 2019	May 31, 2018
Income tax (provision) benefit, excluding items below	\$ 125	\$ (78)	\$ (469)	\$ (161)
Utilization of and other changes in net deferred tax assets of MMJ, MMT, and MTTW	(32)	(35)	(162)	(78)
Repatriation Tax, net of adjustments related to uncertain tax positions	42	222	9	(1,113)
Release of the valuation allowance on net deferred tax assets of our U.S. operations	—	—	—	1,337
Remeasurement of deferred tax assets and liabilities reflecting lower U.S. corporate tax rates	—	—	—	(133)
	<u>\$ 135</u>	<u>\$ 109</u>	<u>\$ (622)</u>	<u>\$ (148)</u>

Our income tax benefit in the third quarter of 2019 was primarily due to reductions in our effective tax rate, profit before tax, and the Foreign Minimum Tax. In addition, in the third quarter of 2019, we recorded tax benefits related to our deferred tax liabilities on unremitted earnings due to Tax Act-related law changes made effective during the third quarter.

As of May 30, 2019, gross unrecognized income tax benefits were \$390 million, substantially all of which would affect our effective tax rate in the future, if recognized. The amount accrued for interest and penalties related to uncertain tax positions was not material for any period presented.

We operate in a number of tax jurisdictions outside the United States, including Singapore, where we have tax incentive arrangements, which expire in whole or in part at various dates through 2034, that are conditional, in part, upon meeting certain business operations and employment thresholds. The effect of tax incentive arrangements reduced our tax provision by \$71 million (benefiting our diluted earnings per share by \$0.06) and \$742 million (\$0.65 per diluted share) for the third quarter and first nine months of 2019, respectively, and by \$527 million (\$0.43 per diluted share) and \$1.35 billion (\$1.10 per diluted share) for the third quarter and first nine months of 2018, respectively.

Earnings Per Share

	Quarter ended		Nine months ended	
	May 30, 2019	May 31, 2018	May 30, 2019	May 31, 2018
Net income attributable to Micron – Basic	\$ 840	\$ 3,823	\$ 5,752	\$ 9,810
Assumed conversion of debt	(4)	—	(6)	—
Net income attributable to Micron – Diluted	<u>\$ 836</u>	<u>\$ 3,823</u>	<u>\$ 5,746</u>	<u>\$ 9,810</u>
Weighted-average common shares outstanding – Basic	1,105	1,159	1,117	1,150
Dilutive effect of equity plans and convertible notes	24	76	31	83
Weighted-average common shares outstanding – Diluted	<u>1,129</u>	<u>1,235</u>	<u>1,148</u>	<u>1,233</u>
Earnings per share				
Basic	\$ 0.76	\$ 3.30	\$ 5.15	\$ 8.53
Diluted	0.74	3.10	5.01	7.96

Antidilutive potential common stock shares that could dilute basic earnings per share in the future were 6 million and 7 million for the third quarter and first nine months of 2019, respectively, and 2 million and 3 million for the third quarter and first nine months of 2018, respectively.

Segment and Other Information

Segment information reported herein is consistent with how it is reviewed and evaluated by our chief operating decision maker. We have the following four business units, which are our reportable segments:

Compute and Networking Business Unit ("CNBU"): Includes memory products sold into data center, client, graphics, and networking markets.

Mobile Business Unit ("MBU"): Includes memory products sold into smartphone and other mobile-device markets.

Storage Business Unit ("SBU"): Includes SSDs and other storage products, including component-level solutions, sold into data center, client, and consumer SSD markets, other discrete storage products sold in component and wafer forms to the removable storage markets, and sales of 3D XPoint memory.

Embedded Business Unit ("EBU"): Includes memory and storage products sold into automotive, industrial, and consumer markets.

Certain operating expenses directly associated with the activities of a specific segment are charged to that segment. Other indirect operating income and expenses are generally allocated to segments based on their respective percentage of cost of goods sold or forecasted wafer production. We do not identify or report internally our assets (other than goodwill) or capital expenditures by segment, nor do we allocate gains and losses from equity method investments, interest, other non-operating income or expense items, or taxes to segments.

	Quarter ended		Nine months ended	
	May 30, 2019	May 31, 2018	May 30, 2019	May 31, 2018
Revenue				
CNBU	\$ 2,079	\$ 3,988	\$ 8,065	\$ 10,891
MBU	1,174	1,753	4,997	4,684
SBU	813	1,143	2,978	3,780
EBU	700	897	2,432	2,556
All Other	22	16	64	40
	<u>\$ 4,788</u>	<u>\$ 7,797</u>	<u>\$ 18,536</u>	<u>\$ 21,951</u>
Operating income (loss)				
CNBU	\$ 800	\$ 2,615	\$ 4,171	\$ 6,858
MBU	331	860	2,241	2,054
SBU	(198)	156	(138)	807
EBU	173	386	822	1,091
All Other	4	—	11	(6)
	<u>1,110</u>	<u>4,017</u>	<u>7,107</u>	<u>10,804</u>
Unallocated				
Stock-based compensation	(58)	(48)	(176)	(151)
Start-up and preproduction costs	(23)	—	(46)	—
Employee severance	—	—	(37)	—
Restructure and asset impairments	(9)	(8)	(90)	(21)
Other	(10)	(8)	(32)	(15)
	<u>(100)</u>	<u>(64)</u>	<u>(381)</u>	<u>(187)</u>
Operating income	<u>\$ 1,010</u>	<u>\$ 3,953</u>	<u>\$ 6,726</u>	<u>\$ 10,617</u>

Revenue by product type was as follows:

	Quarter ended		Nine months ended	
	May 30, 2019	May 31, 2018	May 30, 2019	May 31, 2018
DRAM	\$ 3,041	\$ 5,541	\$ 12,174	\$ 15,316
NAND	1,461	1,949	5,416	5,660
Other (primarily 3D XPoint memory and NOR)	286	307	946	975
	<u>\$ 4,788</u>	<u>\$ 7,797</u>	<u>\$ 18,536</u>	<u>\$ 21,951</u>

Customer Concentrations: Revenue from Huawei was 13% of total revenue for the first nine months of 2019.

ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

This discussion should be read in conjunction with the consolidated financial statements and accompanying notes included in our Annual Report on Form 10-K for the year ended August 30, 2018. All period references are to our fiscal periods unless otherwise indicated. Our fiscal year is the 52 or 53-week period ending on the Thursday closest to August 31. Our fiscal 2019 and 2018 each contain 52 weeks. All production data includes the production of IMFT. All tabular dollar amounts are in millions, except per share amounts.

Overview

Micron Technology, Inc., including its consolidated subsidiaries, is an industry leader in innovative memory and storage solutions. Through our global brands – Micron[®], Crucial[®], and Ballistix[®] – our broad portfolio of high-performance memory and storage technologies, including DRAM, NAND, NOR Flash, and 3D XPoint memory, is transforming how the world uses information to enrich life. Backed by 40 years of technology leadership, our memory and storage solutions enable disruptive trends, including artificial intelligence, machine learning, and autonomous vehicles, in key market segments like data center, networking, automotive, industrial, mobile, graphics, and client.

We manufacture our products at our worldwide, wholly-owned and joint venture facilities. In recent years, we have increased our manufacturing scale and product diversity through strategic acquisitions, expansion, and various partnering arrangements.

We make significant investments to develop proprietary product and process technology, which are implemented in our manufacturing facilities. We generally increase the density per wafer and reduce manufacturing costs of each generation of product through advancements in product and process technology, such as our leading-edge line-width process technology and 3D NAND architecture. We continue to introduce new generations of products that offer improved performance characteristics, including higher data transfer rates, reduced package size, lower power consumption, improved read/write reliability, and increased memory density. Storage products incorporating NAND, a controller, and firmware constitute a significant and increasing portion of our revenues. We generally develop firmware and, in the first quarter of 2019, introduced proprietary controllers into our SSDs. Development of advanced technologies enables us to diversify our product portfolio toward a richer mix of differentiated, high-value solutions and to target high-growth markets.

We market our products through our internal sales force, independent sales representatives, distributors, and e-tailers, primarily to original equipment manufacturers and retailers located around the world. We face intense competition in the semiconductor memory and storage markets and, in order to remain competitive, we must continuously develop and implement new products and technologies and decrease manufacturing costs. Our success is largely dependent on market acceptance of our diversified portfolio of semiconductor-based memory and storage solutions, efficient utilization of our manufacturing infrastructure, successful ongoing development and integration of advanced product and process technology, return-driven capital spending, and successful R&D investments.

Results of Operations

Consolidated Results

	Third Quarter		Second Quarter		Third Quarter		Nine Months			
	2019		2019		2018		2019		2018	
Revenue	\$ 4,788	100 %	\$ 5,835	100 %	\$ 7,797	100 %	\$ 18,536	100 %	\$ 21,951	100 %
Cost of goods sold	2,960	62 %	2,971	51 %	3,074	39 %	9,229	50 %	9,211	42 %
Gross margin	1,828	38 %	2,864	49 %	4,723	61 %	9,307	50 %	12,740	58 %
Selling, general, and administrative	206	4 %	209	4 %	211	3 %	624	3 %	598	3 %
Research and development	606	13 %	601	10 %	603	8 %	1,818	10 %	1,574	7 %
Other operating (income) expense, net	6	— %	97	2 %	(44)	(1)%	139	1 %	(49)	— %
Operating income	1,010	21 %	1,957	34 %	3,953	51 %	6,726	36 %	10,617	48 %
Interest income (expense), net	23	— %	31	1 %	(44)	(1)%	59	— %	(206)	(1)%
Other non-operating income (expense), net	(317)	(7)%	(84)	(1)%	(193)	(2)%	(392)	(2)%	(450)	(2)%
Income tax (provision) benefit	135	3 %	(280)	(5)%	109	1 %	(622)	(3)%	(148)	(1)%
Equity in net income (loss) of equity method investees	—	— %	1	— %	(2)	— %	1	— %	(1)	— %
Net income attributable to noncontrolling interests	(11)	— %	(6)	— %	—	— %	(20)	— %	(2)	— %
Net income attributable to Micron	<u>\$ 840</u>	18 %	<u>\$ 1,619</u>	28 %	<u>\$ 3,823</u>	49 %	<u>\$ 5,752</u>	31 %	<u>\$ 9,810</u>	45 %

Total Revenue

Total revenue for the third quarter of 2019 decreased 18% as compared to the second quarter of 2019 as a result of decreases in sales of both DRAM and NAND products primarily due to broad industry supply and demand imbalance that resulted in declines in average selling prices. Sales of DRAM products for the third quarter of 2019 decreased 19% from the second quarter of 2019 primarily due to declines in average selling prices resulting from inventory corrections at the customer level, supply and demand imbalances, and continued CPU shortages. Sales of NAND products for the third quarter of 2019 decreased 18% from the second quarter of 2019 primarily due to pricing declines in the mid-teens percentage range. NAND markets remained challenged by supply growth from the industry's transition from 2D to 3D NAND. Additionally, both DRAM and NAND sales were adversely impacted by the May 19, 2019 addition of Huawei to the U.S. Entity List.

Total revenue for the third quarter and first nine months of 2019 decreased 39% and 16%, respectively, as compared to the corresponding periods of 2018 primarily due to pricing declines resulting from the challenging memory market environment in 2019. Sales of DRAM products for the third quarter and first nine months of 2019 decreased 45% and 21%, respectively, as compared to the corresponding periods of 2018 primarily due to declines in average selling prices resulting from supply and demand imbalances as well as customer inventory corrections. Sales of NAND products for the third quarter and first nine months of 2019 decreased 25% and 4%, respectively, as compared to the corresponding periods of 2018 primarily due to declines in average selling prices resulting from supply and demand imbalances, which were partially offset by increases in sales volumes. The higher sales volumes in 2019 were driven by increases in sales of high-value mobile managed NAND products enabled by our transition to products featuring advanced TLC 3D NAND.

Overall Gross Margin

Our overall gross margin percentage decreased to 38% for the third quarter of 2019 from 49% for the second quarter of 2019 primarily due to declines in selling prices for DRAM and NAND products.

Our overall gross margin percentage decreased to 38% for the third quarter of 2019 from 61% for the third quarter of 2018 and decreased to 50% for the first nine months of 2019 from 58% for the first nine months of 2018 primarily due to declines in average selling prices. Declines in selling prices were partially offset by cost reductions resulting from strong execution in delivering products featuring advanced technologies and from continuous improvement initiatives to reduce production costs.

Revenue by Business Unit

	Third Quarter		Second Quarter		Third Quarter		Nine Months			
	2019		2019		2018		2019		2018	
CNBU	\$ 2,079	43%	\$ 2,382	41%	\$ 3,988	51%	\$ 8,065	44%	\$10,891	50%
MBU	1,174	25%	1,611	28%	1,753	22%	4,997	27%	4,684	21%
SBU	813	17%	1,022	18%	1,143	15%	2,978	16%	3,780	17%
EBU	700	15%	799	14%	897	12%	2,432	13%	2,556	12%
All Other	22	—%	21	—%	16	—%	64	—%	40	—%
	<u>\$ 4,788</u>		<u>\$ 5,835</u>		<u>\$ 7,797</u>		<u>\$18,536</u>		<u>\$21,951</u>	

Percentages are of total revenue but may not total 100% due to rounding.

CNBU revenue for the third quarter of 2019 decreased 13% as compared to the second quarter of 2019 primarily due to lower pricing across major markets, partially offset by shipment volume growth driven by depleted customer inventory levels. MBU revenue for the third quarter of 2019 decreased 27% as compared to the second quarter of 2019 primarily due to lower pricing and LPDRAM shipment volumes, including a reduction in shipments to Huawei as a result of the May 19, 2019 addition of Huawei to the U.S. Entity List. MBU revenue was primarily comprised of mobile LPDRAM and managed NAND products. SBU revenue for the third quarter of 2019 decreased 20% as compared to the second quarter of 2019 primarily due to pricing declines and lower component sales after a large one-time sale in the second quarter of 2019. EBU revenue for the third quarter of 2019 decreased 12% from the second quarter of 2019 primarily due to broad macroeconomic weakness, lower pricing, and ongoing customer inventory reductions in consumer markets.

CNBU revenue for the third quarter and first nine months of 2019 decreased 48% and 26%, respectively, as compared to the corresponding periods of 2018 due to challenging market conditions in 2019, which drove price declines and reductions in sales volumes. MBU revenue for the third quarter of 2019 decreased 33% as compared to the third quarter of 2018 primarily due to declines in pricing, continued weakness in smartphone markets, and a reduction in LPDRAM shipments to Huawei, partially offset by increases in shipments of mobile managed NAND products. MBU revenue for the first nine months of 2019 increased 7% as compared to the first nine months of 2018 despite pricing pressure and market challenges, primarily due to strong execution in developing and qualifying mobile managed NAND products. SBU revenue for the third quarter and first nine months of 2019 decreased 29% and 21%, respectively, as compared to corresponding periods of 2018 primarily due to price declines, partially offset by significant growth in shipment volumes. EBU revenue for the third quarter and first nine months of 2019 decreased 22% and 5%, respectively, as compared to the corresponding periods of 2018 primarily due to lower sales to consumer markets as a result of weak demand and pricing, partially offset by increases in sales to automotive and industrial markets.

Operating Income (Loss) by Business Unit

	Third Quarter		Second Quarter		Third Quarter		Nine Months			
	2019		2019		2018		2019		2018	
CNBU	\$ 800	38 %	\$1,160	49 %	\$2,615	66%	\$4,171	52 %	\$ 6,858	63 %
MBU	331	28 %	707	44 %	860	49%	2,241	45 %	2,054	44 %
SBU	(198)	(24)%	(20)	(2)%	156	14%	(138)	(5)%	807	21 %
EBU	173	25 %	262	33 %	386	43%	822	34 %	1,091	43 %
All Other	4	18 %	1	5 %	—	—%	11	17 %	(6)	(15)%
	<u>\$1,110</u>		<u>\$2,110</u>		<u>\$4,017</u>		<u>\$7,107</u>		<u>\$10,804</u>	

Percentages reflect operating income (loss) as a percentage of revenue for each business unit.

CNBU operating income for the third quarter of 2019 decreased from the second quarter of 2019 primarily due to declines in pricing partially offset by cost reductions. MBU operating income for the third quarter of 2019 decreased from the second

quarter of 2019 primarily due to declines in pricing for LPDRAM and managed NAND products partially offset by cost reductions for managed NAND products. SBU operating margin for the third quarter of 2019 declined from the second quarter of 2019 primarily due to declines in pricing and lower component sales. EBU operating income for the third quarter of 2019 declined from the second quarter of 2019 primarily due to declines in pricing and lower sales volumes.

CNBU operating income for the third quarter and first nine months of 2019 decreased from the corresponding periods of 2018 primarily due to declines in pricing and higher R&D costs, partially offset by cost reductions. MBU operating income for the third quarter of 2019 decreased from the third quarter of 2018 primarily due to declines in pricing partially offset by increases in sales of high-value managed NAND products and manufacturing cost reductions. MBU operating income for the first nine months of 2019 increased from the first nine months of 2018 primarily due to increases in sales of high-value managed NAND products and manufacturing cost reductions, which more than offset declines in pricing. SBU operating margin for the third quarter and first nine months of 2019 declined from the corresponding periods of 2018 primarily due to declines in pricing, which were partially offset by manufacturing cost reductions and increases in sales volumes. SBU operating margins for 2019 and 2018 were adversely impacted by fixed costs associated with underutilization of our share of IMFT's capacity. EBU operating income for the third quarter and first nine months of 2019 decreased from the corresponding periods of 2018 as a result of declines in pricing and higher R&D costs partially offset by manufacturing cost reductions.

Operating Expenses and Other

Selling, General, and Administrative

SG&A expenses for the third quarter of 2019 were relatively unchanged from the second quarter of 2019 and third quarter of 2018. SG&A expenses for the first nine months of 2019 were 4% higher, as compared to the corresponding period of 2018 primarily due to increases in consulting fees and legal costs.

Research and Development

R&D expenses vary primarily with the number of development wafers processed, the cost of advanced equipment dedicated to new product and process development, and personnel costs. Because of the lead times necessary to manufacture our products, we typically begin to process wafers before completion of performance and reliability testing. Development of a product is deemed complete when it is qualified through reviews and tests for performance and reliability. R&D expenses can vary significantly depending on the timing of product qualification.

R&D expenses for the third quarter of 2019 were relatively unchanged as compared to the second quarter of 2019 and third quarter of 2018. R&D expenses for the first nine months of 2019 were 16% higher as compared to the first nine months of 2018 primarily due to decreases in reimbursements from our R&D cost-sharing arrangements, increases in volumes of development and pre-qualification wafers, increases in depreciation expense as a result of increases in capital spending, and increases in labor costs.

We share the cost of certain product and process development activities under development agreements with partners, including agreements to jointly develop 3D NAND and 3D XPoint technologies with Intel. Our R&D expenses were reduced by reimbursements under these development partner arrangements of \$6 million in the third quarter of 2019, \$23 million in the second quarter of 2019, and \$53 million in the third quarter of 2018. The decrease in R&D reimbursements in the third and second quarters of 2019 was primarily due to reductions in our joint development activities with Intel for 3D NAND and 3D XPoint technologies. In the second quarter of 2018, we and Intel agreed to independently develop subsequent generations of 3D NAND. Our 3D NAND joint development agreement with Intel was substantially completed in the third quarter of 2019. In the fourth quarter of 2018, we announced that we and Intel will no longer jointly develop 3D XPoint technology beyond the second generation. We expect development of the second generation of 3D XPoint technology to be substantially completed in the first quarter of 2020.

Income Taxes

Our income tax (provision) benefit consisted of the following:

	Third Quarter 2019	Second Quarter 2019	Third Quarter 2018	Nine Months	
				2019	2018
Income tax (provision) benefit, excluding items below	\$ 125	\$ (216)	\$ (78)	\$ (469)	\$ (161)
Utilization of and other changes in net deferred tax assets of MMJ, MMT, and MTTW	(32)	(78)	(35)	(162)	(78)
Repatriation Tax, net of adjustments related to uncertain tax positions	42	14	222	9	(1,113)
Release of the valuation allowance on net deferred tax assets of our U.S. operations	—	—	—	—	1,337
Remeasurement of deferred tax assets and liabilities reflecting lower U.S. corporate tax rates	—	—	—	—	(133)
	<u>\$ 135</u>	<u>\$ (280)</u>	<u>\$ 109</u>	<u>\$ (622)</u>	<u>\$ (148)</u>
Effective tax rate	(18.9)%	14.7%	(2.9)%	9.7%	1.5%

The decrease in our income tax provision in the third quarter of 2019 as compared to the second quarter of 2019 was due primarily to a reduction in profit before tax and a related reduction in the Foreign Minimum Tax. The Repatriation Tax and our deferred tax liabilities on unremitted earnings were also reduced in the third quarter of 2019 due to Tax Act-related law changes. Our provision for income tax and the effective tax rate increased in the first nine months of 2019 as compared to the corresponding period of 2018 primarily as a result of the Foreign Minimum Tax.

We operate in a number of tax jurisdictions outside the United States, including Singapore, where we have tax incentive arrangements, which expire in whole or in part at various dates through 2034, that are conditional, in part, upon meeting certain business operations and employment thresholds. The effect of tax incentive arrangements reduced our tax provision by \$71 million (benefiting our diluted earnings per share by \$0.06) for the third quarter of 2019, \$244 million (\$0.21 per diluted share) for the second quarter of 2019, and \$527 million (\$0.43 per diluted share) for the third quarter of 2018.

Other

Interest income for the third quarter and first nine months of 2019 increased 44% and 72% as compared to the corresponding periods of 2018, respectively, primarily due to increases in interest rates.

Interest expense for the third quarter and first nine months of 2019 decreased 64% and 70% as compared to the corresponding periods of 2018, respectively, primarily due to decreases in debt obligations and increases in capitalized interest from higher levels of capital spending.

Further discussion of other operating and non-operating income and expenses can be found in "Item 1. Financial Statements – Notes to Consolidated Financial Statements – Equity Plans, Other Operating Income (Expense), Net, and Other Non-Operating Income (Expense), Net" notes.

Liquidity and Capital Resources

Our primary sources of liquidity are cash generated from operations and financing obtained from capital markets and financial institutions. Cash generated from operations is highly dependent on selling prices for our products, which can vary significantly from period to period. We are continuously evaluating alternatives for efficiently funding our capital expenditures and ongoing operations. We expect, from time to time, to engage in a variety of financing transactions for such purposes, including the issuance of securities. We have an undrawn revolving credit facility that expires in July 2023 and provides for borrowings of up to \$2.50 billion. We expect that our cash and investments, cash flows from operations, and available financing will be sufficient to meet our requirements at least through the next 12 months.

To develop new product and process technology, support future growth, achieve operating efficiencies, and maintain product quality, we must continue to invest in manufacturing technologies, facilities and equipment, and R&D. We estimate capital expenditures in 2019 for property, plant, and equipment, net of partner contributions, to be approximately \$9 billion, focused on technology transitions and product enablement. The actual amounts for 2019 will vary depending on market conditions. As of May 30, 2019, we had commitments of approximately \$3.9 billion for the acquisition of property, plant, and equipment, approximately \$3.0 billion of which is expected to be paid within one year.

Our Board of Directors has authorized the discretionary repurchase of up to \$10 billion of our outstanding common stock, beginning in our fiscal 2019, which we may purchase on a discretionary basis through open-market purchases, block trades, privately-negotiated transactions, derivative transactions, and/or pursuant to Rule 10b5-1 trading plans, subject to market conditions and our ongoing determination of the best use of available cash. The repurchase authorization does not obligate us to acquire any common stock. In the third quarter and first nine months of 2019, we repurchased 4 million and 67 million shares of our common stock, respectively, for \$157 million and \$2.66 billion, respectively, under an accelerated share repurchase agreement, Rule 10b5-1 plans, and through open market repurchases.

In January 2019, we exercised our option to acquire Intel's interest in IMFT and, in the third quarter of 2019, Intel set the closing date of the transaction to occur on October 31, 2019. At closing, we expect to pay Intel approximately \$1.4 billion in cash for Intel's noncontrolling interest in IMFT and IMFT Member Debt. As of May 30, 2019, current debt included \$858 million of IMFT Member Debt.

Cash and marketable investments totaled \$7.86 billion and \$7.28 billion as of May 30, 2019 and August 30, 2018, respectively. Our investments consist primarily of money market funds and liquid, investment-grade, fixed-income securities, diversified among industries and individual issuers. To mitigate credit risk, we invest through high-credit-quality financial institutions and by policy generally limit the concentration of credit exposure by restricting the amount of investments with any single obligor.

Limitations on the Use of Cash and Investments

MMJ Group: Cash and marketable investments as of May 30, 2019 included \$564 million held by the MMJ Group. As a result of the corporate reorganization proceedings of MMJ initiated in March 2012, and for so long as such proceedings are continuing, the MMJ Group is prohibited from paying dividends to us. In addition, pursuant to an order of the Tokyo District Court, the MMJ Group cannot make loans or advances, other than certain ordinary course advances, to us without the consent of the Tokyo District Court and may, under certain circumstances, be subject to the approval of the legal trustee. As a result, the assets of the MMJ Group are not available for use by us in our other operations. Furthermore, certain uses of the assets of the MMJ Group, including investments in certain capital expenditures, may require consent of MMJ's trustees and/or the Tokyo District Court.

IMFT: Cash and marketable investments included \$184 million held by IMFT as of May 30, 2019. Our ability to access funds held by IMFT to finance our other operations is subject to agreement by Intel and contractual limitations. Amounts held by IMFT are not anticipated to be available to finance our other operations.

Indefinitely Reinvested: As of May 30, 2019, \$214 million of cash and marketable investments, including substantially all of the amounts held by the MMJ Group, was held by foreign subsidiaries whose earnings were considered to be indefinitely reinvested. Determination of the amount of unrecognized deferred tax liabilities related to investments in these foreign subsidiaries is not practicable.

Cash Flows

	First Nine Months	
	2019	2018
Net cash provided by operating activities	\$ 10,956	\$ 12,245
Net cash provided by (used for) investing activities	(8,985)	(6,087)
Net cash provided by (used for) financing activities	(3,330)	(4,443)
Effect of changes in currency exchange rates on cash, cash equivalents, and restricted cash	6	(4)
Net increase (decrease) in cash, cash equivalents, and restricted cash	\$ (1,353)	\$ 1,711

Operating Activities: For the first nine months of 2019, cash provided by operating activities was due primarily to net income and the effect of working capital adjustments, which included a \$2.37 billion decrease in receivables as a result of lower levels of revenue, a \$1.32 billion increase in inventory due to higher levels of work in process and raw materials inventories, a \$703 million decrease in accounts payable and accrued expenses, and a \$195 million decrease in deferred income taxes due primarily to the utilization of deferred tax assets. For the first nine months of 2018, cash provided by operating activities was due primarily to cash generated by our operations and the effect of working capital adjustments, which included \$1.18 billion of cash used for increases in receivables.

Investing Activities: For the first nine months of 2019, net cash used for investing activities consisted primarily of \$7.08 billion of expenditures for property, plant, and equipment (net of partner contributions) and \$1.92 billion of net outflows from sales, maturities, and purchases of available-for-sale securities. For the first nine months of 2018, net cash used for investing activities consisted primarily of \$5.96 billion of expenditures for property, plant, and equipment (net of partner contributions), partially offset by \$182 million of net inflows from sales, maturities, and purchases of available-for-sale securities.

Financing Activities: For the first nine months of 2019, net cash used for financing activities consisted primarily of \$2.66 billion for the acquisition of 67 million shares of treasury stock under our \$10 billion share repurchase authorization and cash payments to reduce our debt, including \$1.65 billion to settle conversions of notes and \$731 million for scheduled repayment of other notes and capital leases, partially offset by net proceeds of \$1.79 billion from the aggregate issuance of the 2024 Notes, 2026 Notes, and 2029 Notes. For the first nine months of 2018, net cash used for financing activities consisted primarily of cash payments of \$6.15 billion to reduce our debt, including \$4.85 billion to prepay or repurchase our debt and \$1.31 billion to settle conversions of notes, and \$614 million for repayments of other notes and capital leases. Cash paid for financing activities was partially offset by net proceeds of \$1.36 billion from the issuance of 34 million shares of our common stock for \$41.00 per share in a public offering and \$969 million of proceeds from IMFT Member Debt.

Potential Settlement Obligations of Convertible Notes

Since the closing price of our common stock exceeded 130% of the conversion price per share of 2032D Notes and 2033F Notes for at least 20 trading days in the 30 trading day period ended on March 31, 2019, holders may convert such notes at any time through the calendar quarter ended June 30, 2019. Additionally, the closing price of our common stock also exceeded the thresholds for our 2032D Notes and 2033F Notes for the calendar quarter ended June 30, 2019; therefore, such notes are convertible by the holders at any time through September 30, 2019. The following table summarizes the potential settlements that we could be required to make for the calendar quarter ending June 30, 2019 if all holders converted their notes. The amounts in the table below are based on our closing share price of \$33.32 as of May 30, 2019.

	Settlement Option		Underlying Shares	If Settled with Minimum Cash Required		If Settled Entirely with Cash
	Principal Amount	Amount in Excess of Principal		Cash	Remainder in Shares	
2032D Notes	Cash and/or shares	Cash and/or shares	13	\$ —	13	\$ 446
2033F Notes	Cash	Cash and/or shares	6	64	4	195
			19	\$ 64	17	\$ 641

Contractual Obligations

As of May 30, 2019	Payments Due by Period				
	Total	Remainder of 2019	2020 - 2021	2022 - 2023	2024 and Thereafter
Notes payable ⁽¹⁾⁽²⁾	\$ 5,262	\$ 235	\$ 1,415	\$ 970	\$ 2,642
Capital lease obligations ⁽²⁾	764	71	346	121	226
Operating leases ⁽³⁾	749	9	113	119	508
Total	<u>\$ 6,775</u>	<u>\$ 315</u>	<u>\$ 1,874</u>	<u>\$ 1,210</u>	<u>\$ 3,376</u>

⁽¹⁾ Amounts include MMJ Creditor Payments, convertible notes, and other notes.

⁽²⁾ Amounts include principal and interest.

⁽³⁾ Amounts include contractually obligated minimum lease payments for operating leases having an initial noncancelable term in excess of one year.

Critical Accounting Estimates

For a discussion of our critical accounting estimates, see "Part I – Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations" of our Annual Report on Form 10-K for the year ended August 30, 2018. Except for the critical accounting estimates associated with revenue recognition as discussed below, there have been no material changes to our critical accounting estimates since our Annual Report on Form 10-K for the year ended August 30, 2018.

Revenue recognition: Revenue is primarily recognized at a point in time when control of the promised goods is transferred to our customers in an amount that reflects the consideration we expect to be entitled to in exchange for those goods. Contracts with our customers are generally short-term in duration at fixed, negotiated prices with payment generally due shortly after delivery. We estimate a liability for returns using the expected value method based on historical rates of return. In addition, we generally offer price protection to our distributors, which is a form of variable consideration that decreases the transaction price. We estimate the amount of consideration we expect to be entitled to from sales to distributors, using the expected value method, based on historical price adjustments and current pricing trends. Differences between the estimated and actual amount is recognized as an adjustment to revenue.

Recently Adopted Accounting Standards

See "Item 1. Financial Statements – Notes to Consolidated Financial Statements – Recently Adopted Accounting Standards."

Recently Issued Accounting Standards Not Yet Adopted

See "Item 1. Financial Statements – Notes to Consolidated Financial Statements – Recently Issued Accounting Standards Not Yet Adopted."

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Interest Rate Risk

We are exposed to interest rate risk related to our indebtedness and our investment portfolio. As of May 30, 2019 and August 30, 2018, we had fixed-rate debt of \$3.5 billion and \$3.1 billion, respectively, and as a result, the fair value of our debt fluctuates with changes in market interest rates. We estimate that, as of May 30, 2019 and August 30, 2018, a decrease in market interest rates of 1% would increase the fair value of our fixed-rate debt by approximately \$145 million and \$79 million, respectively.

Foreign Currency Exchange Rate Risk

We are affected by changes in currency exchange rates. For further discussion about market risk and sensitivity analysis related to changes in currency exchange rates, see "Part II - Item 7A. Quantitative and Qualitative Disclosures About Market Risk" of our Annual Report on Form 10-K for the year ended August 30, 2018.

ITEM 4. CONTROLS AND PROCEDURES

An evaluation was carried out under the supervision and with the participation of our management, including our principal executive officer and principal financial officer, of the effectiveness of the design and operation of our disclosure controls and procedures (as defined in Rule 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934) as of the end of the period covered by this report. Based upon that evaluation, the principal executive officer and principal financial officer concluded that those disclosure controls and procedures were effective to ensure that information required to be disclosed by us in the reports that we file or submit under the Exchange Act are recorded, processed, summarized, and reported within the time periods specified in the Commission's rules and forms and that such information is accumulated and communicated to our management, including the principal executive officer and principal financial officer, to allow timely decision regarding disclosure.

During the third quarter of 2019, there were no changes in our internal control over financial reporting that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

PART II. OTHER INFORMATION

ITEM 1. LEGAL PROCEEDINGS

For a discussion of legal proceedings, see "Part I – Item 3. Legal Proceedings" of our Annual Report on Form 10-K for the year ended August 30, 2018 and "Part I. Financial Information – Item 1. Financial Statements – Notes to Consolidated Financial Statements – Contingencies" and "Item 1A. Risk Factors" herein.

ITEM 1A. RISK FACTORS

In addition to the factors discussed elsewhere in this Form 10-Q, the following are important factors, the order of which is not necessarily indicative of the level of risk that each poses to us, which could cause actual results or events to differ materially from those contained in any forward-looking statements made by us. Any of these factors could have a material adverse effect on our business, results of operations, financial condition, or stock price. Our operations could also be affected by other factors that are presently unknown to us or not considered significant.

Volatility in average selling prices for our semiconductor memory and storage products may adversely affect our business.

We have experienced significant volatility in our average selling prices, including dramatic declines as noted in the table below, and may continue to experience such volatility in the future. In some prior periods, average selling prices for our products have been below our manufacturing costs and we may experience such circumstances in the future. Average selling prices for our products that decline faster than our costs could have a material adverse effect on our business, results of operations, or financial condition.

	DRAM	Trade NAND
	(percentage change in average selling prices)	
2018 from 2017	37 %	(11)%
2017 from 2016	19 %	(9)%
2016 from 2015	(35)%	(20)%
2015 from 2014	(11)%	(17)%
2014 from 2013	6 %	(23)%

We may be unable to maintain or improve gross margins.

Our gross margins are dependent in part upon continuing decreases in per gigabit manufacturing costs achieved through improvements in our manufacturing processes and product designs, including, but not limited to, process line-width, additional 3D memory layers, additional bits per cell (i.e., cell levels), architecture, number of mask layers, number of fabrication steps, and yield. In future periods, we may be unable to reduce our per gigabit manufacturing costs at sufficient levels to maintain or improve gross margins. Factors that may limit our ability to reduce costs include, but are not limited to, strategic product diversification decisions affecting product mix, the increasing complexity of manufacturing processes, difficulties in transitioning to smaller line-width process technologies, 3D memory layers, NAND cell levels, transitioning to replacement gate technology for NAND, process complexity including number of mask layers and fabrication steps, manufacturing yield, technological barriers, changes in process technologies, and new products that may require relatively larger die sizes. Per gigabit manufacturing costs may be affected by any decisions to reduce our production output, which may cause per gigabit costs to increase. In addition, per gigabit manufacturing costs may also be affected by a broader product portfolio, which may have smaller production quantities and shorter product lifecycles. Our business and the markets we serve are subject to rapid technological changes and material fluctuations in demand based on end-user preferences. As a result, we may have work in process or finished goods inventories that could become obsolete or in amounts that are in excess of our customers' demand. As a result, we may incur charges in connection with obsolete or excess inventories, which could have a material adverse effect on our business, results of operations, or financial condition. Our inability to maintain or improve gross margins could have a material adverse effect on our business, results of operations, or financial condition.

The semiconductor memory and storage markets are highly competitive.

We face intense competition in the semiconductor memory and storage markets from a number of companies, including Intel; Samsung Electronics Co., Ltd.; SK Hynix Inc.; Toshiba Memory Corporation; and Western Digital Corporation. Some of our competitors are large corporations or conglomerates that may have greater resources to invest in technology, capitalize on growth opportunities, and withstand downturns in the semiconductor markets in which we compete. Consolidation of industry competitors could put us at a competitive disadvantage. In addition, some governments have provided, and may continue to provide, significant assistance, financial or otherwise, to some of our competitors or to new entrants and may intervene in support of national industries and/or competitors. In particular, we face the threat of increasing competition as a result of significant investment in the semiconductor industry by the Chinese government and various state-owned or affiliated entities that is intended to advance China's stated national policy objectives. In addition, the Chinese government may restrict us from participating in the China market or may prevent us from competing effectively with Chinese companies. Some of our competitors may use aggressive pricing to obtain market share or take business of our key customers.

Our competitors generally seek to increase silicon capacity, improve yields, and reduce die size in their product designs which may result in significant increases in worldwide supply and downward pressure on prices. Increases in worldwide supply of semiconductor memory and storage also result from fabrication capacity expansions, either by way of new facilities, increased capacity utilization, or reallocation of other semiconductor production to semiconductor memory and storage production. Our competitors may increase capital expenditures resulting in future increases in worldwide supply. We and some of our competitors have plans to ramp, or are constructing or ramping, production at new fabrication facilities. Increases in worldwide supply of semiconductor memory and storage, if not accompanied by commensurate increases in demand, would lead to further declines in average selling prices for our products and would materially adversely affect our business, results of operations, or financial condition. If competitors are more successful at developing or implementing new product or process technology, their products could have cost or performance advantages.

The competitive nature of our industry could have a material adverse effect on our business, results of operations, or financial condition.

We may be unable to generate sufficient cash flows or obtain access to external financing necessary to fund our operations, make scheduled debt payments, and make adequate capital investments.

Our cash flows from operations depend primarily on the volume of semiconductor memory and storage products sold, average selling prices, and manufacturing costs. To develop new product and process technology, support future growth, achieve operating efficiencies, and maintain product quality, we must make significant capital investments in manufacturing technology, capital equipment, facilities, R&D, and product and process technology.

We estimate that capital expenditures in 2019 for property, plant, and equipment, net of partner contributions, to be approximately \$9 billion, focused on technology transitions and product enablement. Investments in capital expenditures may not generate expected returns or cash flows. Delays in completion and ramping of new production facilities could significantly impact our ability to realize expected returns on our capital expenditures, which could have a material adverse effect on our business, results of operations, or financial condition.

As a result of the corporate reorganization proceedings of MMJ initiated in 2012, and for so long as such proceedings are continuing, MMJ is prohibited from paying dividends, including any cash dividends, to us and such proceedings require that excess earnings be used in MMJ's business or to fund the MMJ creditor payments. In addition, pursuant to an order of the Tokyo District Court, MMJ cannot make loans or advances, other than certain ordinary course advances, to us without the consent of the Tokyo District Court and may, under certain circumstances, be subject to approval of the legal trustee. As a result, the assets of MMJ are not available for use by us in our other operations. Furthermore, certain uses of the assets of MMJ, including certain capital expenditures of MMJ, may require consent of MMJ's trustees and/or the Tokyo District Court.

In the past we have utilized external sources of financing when needed. As a result of our debt levels, expected debt amortization, and general economic conditions, it may be difficult for us to obtain financing on terms acceptable to us. There can be no assurance that we will be able to generate sufficient cash flows, use cash held by MMJ to fund its capital expenditures, access capital markets or find other sources of financing to fund our operations, make debt payments, and make adequate capital investments to remain competitive in terms of technology development and cost efficiency. Our inability to do any of the foregoing could have a material adverse effect on our business, results of operations, or financial condition.

Our future success depends on our ability to develop and produce competitive new memory and storage technologies.

Our key semiconductor memory and storage products and technologies face technological barriers to continue to meet long-term customer needs. These barriers include potential limitations on stacking additional 3D memory layers, increasing bits per cell (i.e., cell levels), meeting higher density requirements, and improving power consumption and reliability. We may face technological barriers to continue to shrink our products at our current or historical rate, which has generally reduced per-unit cost. In addition, we may face challenges in transitioning to replacement gate technology for NAND. We have invested and expect to continue to invest in R&D for new and existing products, which involves significant risk and uncertainties. We may be unable to recover our investment in R&D or otherwise realize the economic benefits of reducing die size or increasing memory and storage densities. Our competitors are working to develop new memory and storage technologies that may offer performance and/or cost advantages to existing technologies and render existing technologies obsolete. Accordingly, our future success may depend on our ability to develop and produce viable and competitive new memory and storage technologies. There can be no assurance of the following:

- that we will be successful in developing competitive new semiconductor memory and storage technologies;
- that we will be able to cost-effectively manufacture new products;
- that we will be able to successfully market these technologies; and
- that margins generated from sales of these products will allow us to recover costs of development efforts.

We develop and produce advanced memory technologies, including 3D XPoint memory, a new class of non-volatile technology. There is no assurance that our efforts to develop and market new product technologies will be successful. Unsuccessful efforts to develop new semiconductor memory and storage technologies could have a material adverse effect on our business, results of operations, or financial condition.

A significant concentration of our revenue is to a select number of customers.

In each of the last three years, approximately one-half of our total revenue was from our top ten customers. A disruption in our relationship with any of these customers could adversely affect our business. We could experience fluctuations in our customer base or the mix of revenue by customer as markets and strategies evolve. In addition, any consolidation of our customers could reduce the number of customers to whom our products could be sold. Our inability to meet our customers'

requirements or to qualify our products with them could adversely impact our revenue. The loss of one or more of our major customers or any significant reduction in orders from, or a shift in product mix by, these customers could have a material adverse effect on our business, results of operations, or financial condition.

Increases in tariffs or other trade restrictions or taxes on our or our customers' products or equipment and supplies could have an adverse impact on our operations.

In 2018, 88% of our revenue was from products shipped to customer locations outside the United States. We also purchase a significant portion of equipment and supplies from suppliers outside the United States. Additionally, a significant portion of our facilities are located outside the United States, including Taiwan, Singapore, Japan, and China.

The United States and other countries have levied tariffs and taxes on certain goods. General trade tensions between the U.S. and China have been escalating since 2018, with U.S. tariffs on Chinese goods and retaliatory Chinese tariffs on U.S. goods. Some of our products are included in these tariffs. Higher duties on existing tariffs and further rounds of tariffs have been announced or threatened by U.S. and Chinese leaders. Additionally, the U.S. has threatened to impose tariffs on goods imported from other countries, which could also impact our or certain of our customers' operations. If the U.S. were to impose current or additional tariffs on components that we or our suppliers source, our cost for such components would increase. We may also incur increases in manufacturing costs and supply chain risks due to our efforts to mitigate the impact of tariffs on our customers and our operations. Additionally, tariffs on our customers' products could impact their sales of such end products, resulting in lower demand for our products.

We cannot predict what further actions may ultimately be taken with respect to tariffs or trade relations between the U.S. and other countries, what products may be subject to such actions, or what actions may be taken by other countries in retaliation. Further changes in trade policy, tariffs, additional taxes, restrictions on exports or other trade barriers, or restrictions on supplies, equipment, and raw materials including rare earth minerals, may limit our ability to produce products, increase our selling and/or manufacturing costs, decrease margins, reduce the competitiveness of our products, or inhibit our ability to sell products or purchase necessary equipment and supplies, which could have a material adverse effect on our business, results of operations, or financial condition.

The U.S. government has restricted our ability to sell our products to a significant customer.

On May 16, 2019, the Bureau of Industry and Security ("BIS") of the U.S. Department of Commerce added Huawei to the BIS's Entity List, which imposes limitations on the supply of certain U.S. items and product support to Huawei. Our sales to Huawei accounted for 13% of our total revenue for the first nine months of 2019. To ensure compliance with the Entity List restrictions, we suspended shipments of all products to Huawei, effective May 16, 2019. We are reviewing our product portfolio to determine whether our products and related support are subject to the Export Administration Regulations ("EAR"), and therefore within the scope of the Entity List restrictions. We have determined that certain products Huawei purchases from us are not subject to the EAR and consequently can be lawfully sold and shipped to Huawei. Accordingly, we resumed shipping certain products to Huawei in the fourth quarter of 2019.

While Huawei remains on the Entity List, and in the absence of a license from the BIS, we may be unable to work with Huawei on future product development, which may have a negative effect on our ability to sell products to Huawei in the future. Entity List restrictions may also encourage Huawei to seek to obtain a greater supply of similar or substitute products from our competitors that are not subject to these restrictions, thereby decreasing our long-term competitiveness as a supplier to Huawei. Moreover, although Huawei is not prohibited from paying (and we are not restricted from collecting) accounts receivable for products we sell to Huawei, the credit risks associated with these accounts may have increased as a result of the BIS's actions.

We cannot predict what additional actions the U.S. government may take with respect to Huawei, including modifications to or interpretations of Entity List restrictions, export restrictions, tariffs, or other trade limitations or barriers. Due to the customized nature of certain of the products we manufacture, we may be unable to sell certain finished goods inventory to an alternative customer or manufacture in-process inventory to different specifications, which may result in excess and obsolescence charges in future periods.

The Entity List trade restrictions enacted during our third quarter of 2019 had an adverse effect on our business. We are unable to predict the duration of the export restrictions imposed with respect to Huawei or the long-term effects on our business. Additionally, other companies may be added to the Entity List and/or subject to trade restrictions. In addition, there may be indirect impacts to our business which we cannot reasonably quantify, including that some of our other customer's products which incorporate our solutions may also be impacted by these and other trade restrictions that may be imposed by the

U.S., China, or other countries. Restrictions on our ability to sell and ship our products to Huawei have had, and may continue to have, an adverse effect on our business, results of operations, or financial condition.

We face risks associated with our international sales and operations that could materially adversely affect our business, results of operations, or financial condition.

A substantial majority of our consolidated revenue is from products shipped to customer locations outside the United States. In addition, a substantial portion of our manufacturing operations are located outside the United States. In particular, a significant portion of our manufacturing operations are concentrated in Singapore, Taiwan, Japan, and China. Many of our customers, suppliers, and vendors operate internationally and are also subject to the risks described below. In addition, the U.S. government has in the past restricted American firms from selling products and software to certain of our customers and may in the future impose similar bans or other restrictions on sales to one or more of our significant customers. These restrictions may not prohibit our competitors from selling similar products to our customers, which may result in our loss of sales and market share. Even when such restrictions are lifted, financial or other penalties or continuing export restrictions imposed with respect to our customers could have a continuing negative impact on our future revenue and results of operations, and we may not be able to recover any customers or market share we lose while complying with such restrictions. We have experienced restrictions on our ability to sell products to certain foreign customers where sales of products require export licenses or are prohibited by government action. Possible future U.S. government actions could lead to additional or enhanced controls on exports from the United States to China or other countries, bans on sales to other key customers, or other similar restrictions.

Trade-related government actions, by China or other countries, that impose barriers or restrictions that would impact our ability to sell or ship products to Huawei or other customers may have a negative impact on our financial condition and results of operations. We cannot predict the actions government entities may take in this context and may be unable to quickly offset or effectively react to government actions that restrict our ability to sell to certain customers or in certain jurisdictions. Government actions that affect our customers' ability to sell products or access critical elements of their supply chains may result in a decreased demand for their products, which may consequently reduce their demand for our products.

Our international sales and operations are subject to a variety of risks, including:

- export and import duties, changes to import and export regulations, customs regulations and processes, and restrictions on the transfer of funds;
- imposition of bans on sales of goods or services to one or more of our significant foreign customers;
- compliance with U.S. and international laws involving international operations, including the Foreign Corrupt Practices Act of 1977, as amended, export and import laws, and similar rules and regulations;
- theft of intellectual property;
- political and economic instability;
- problems with the transportation or delivery of products;
- issues arising from cultural or language differences and labor unrest;
- longer payment cycles and greater difficulty in collecting accounts receivable;
- compliance with trade, technical standards, and other laws in a variety of jurisdictions;
- contractual and regulatory limitations on the ability to maintain flexibility with staffing levels;
- disruptions to manufacturing operations as a result of actions imposed by foreign governments;
- changes in economic policies of foreign governments; and
- difficulties in staffing and managing international operations.

If we or our customers, suppliers, or vendors are impacted by these risks, it could have a material adverse effect on our business, results of operations, or financial condition.

We have been served with complaints in Chinese courts alleging patent infringement.

We have been served with complaints in Chinese courts alleging that we infringe certain Chinese patents by manufacturing and selling certain products in China. The complaints seek orders requiring us to destroy inventory of the accused products and equipment for manufacturing the accused products in China, to stop manufacturing, using, selling, and offering for sale the accused products in China, and to pay damages plus court fees.

We are unable to predict the outcome of these assertions of infringement made against us and therefore cannot estimate the range of possible loss. A determination that our products or manufacturing processes infringe the intellectual property rights of others or entering into a license agreement covering such intellectual property could result in significant liability and/or require us to make material changes to our operations in China, products, and/or manufacturing processes. Any of the foregoing could

have a material adverse effect on our business, results of operations, or financial condition. (See "Part I. Financial Information – Item 1. Financial Statements – Notes to Consolidated Financial Statements – Contingencies.")

We are subject to allegations of anticompetitive conduct.

On April 27, 2018, a complaint was filed against Micron and other DRAM suppliers in the U.S. District Court for the Northern District of California. Subsequently two substantially identical cases were filed in the same court. The lawsuits purport to be on behalf of a nationwide class of indirect purchasers of DRAM products. The complaints assert claims based on alleged price-fixing of DRAM products under federal and state law during the period from June 1, 2016 to February 1, 2018, and seek treble monetary damages, costs, interest, attorneys' fees, and other injunctive and equitable relief.

On June 26, 2018, a complaint was filed against Micron and other DRAM suppliers in the U.S. District Court for the Northern District of California. Subsequently four substantially identical cases were filed in the same court. The lawsuits purport to be on behalf of a nationwide class of direct purchasers of DRAM products. The complaints assert claims based on alleged price-fixing of DRAM products under federal and state law during the period from June 1, 2016 to February 1, 2018, and seek treble monetary damages, costs, interest, attorneys' fees, and other injunctive and equitable relief.

Additionally, six cases have been filed in the following Canadian courts: Superior Court of Quebec, the Federal Court of Canada, the Ontario Superior Court of Justice, and the Supreme Court of British Columbia. The substantive allegations in these cases are similar to those asserted in the cases filed in the United States.

On May 15, 2018, the Chinese State Administration for Market Regulation ("SAMR") notified Micron that it was investigating potential collusion and other anticompetitive conduct by DRAM suppliers in China. On May 31, 2018, SAMR made unannounced visits to our sales offices in Beijing, Shanghai, and Shenzhen to seek certain information as part of its investigation. We are cooperating with SAMR in its investigation.

We are unable to predict the outcome of these matters and therefore cannot estimate the range of possible loss. The final resolution of these matters could result in significant liability and could have a material adverse effect on our business, results of operations, or financial condition.

Our business, results of operations, or financial condition could be adversely affected by the limited availability and quality of materials, supplies, and capital equipment, or the dependency on third-party service providers.

Our supply chain and operations are dependent on the availability of materials that meet exacting standards and the use of third parties to provide us with components and services. We generally have multiple sources of supply for our materials and services. However, only a limited number of suppliers are capable of delivering certain materials and services that meet our standards and, in some cases, materials, components, or services are provided by a single supplier. Various factors could reduce the availability of materials or components such as chemicals, silicon wafers, gases, photoresist, controllers, substrates, lead frames, printed circuit boards, targets, and reticle glass blanks. Shortages or increases in lead times may occur from time to time in the future. Our manufacturing processes are also dependent on our relationships with third-party manufacturers of controllers used in a number of our products and with outsourced semiconductor assembly and test providers, contract manufacturers, logistic carriers, and other service providers.

Certain materials are primarily available in certain countries, including rare earth elements, minerals, and metals available primarily from China. Trade disputes or other political or economic conditions may limit our availability to obtain such materials. Although these rare earth and other materials are generally available from multiple suppliers, China is the predominant producer of certain of these materials. If China were to stop exporting these materials, our suppliers' ability to obtain such supply may be constrained and we may be unable to obtain sufficient quantities, or obtain supply in a timely manner, or at a commercially reasonable cost. Constrained supply of rare earth elements, minerals, and metals may restrict our ability to manufacture certain of our products and make it difficult or impossible to compete with other semiconductor memory manufacturers who are able to obtain sufficient quantities of these materials from China.

We and/or our suppliers and service providers could be affected by tariffs, embargoes or other trade restrictions, as well as laws and regulations enacted in response to concerns regarding climate change, conflict minerals, and responsible sourcing practices, which could limit the supply of our materials and/or increase the cost. In addition, disruptions in transportation lines could delay our receipt of materials. Lead times for the supply of materials have been extended in the past. The disruption of our supply of materials, components, services, or the extension of our lead times could have a material adverse effect on our business, results of operations, or financial condition.

Our operations are dependent on our ability to procure advanced semiconductor manufacturing equipment that enables the transition to lower cost manufacturing processes. For certain key types of equipment, including photolithography tools, we are sometimes dependent on a single supplier. From time to time, we have experienced difficulties in obtaining some equipment on a timely basis due to suppliers' limited capacity. Our inability to obtain equipment on a timely basis could adversely affect our ability to transition to next generation manufacturing processes and reduce our costs. Delays in obtaining equipment could also impede our ability to ramp production at new facilities and could increase our overall costs of a ramp. Our inability to obtain advanced semiconductor manufacturing equipment in a timely manner could have a material adverse effect on our business, results of operations, or financial condition.

We are subject to allegations of securities violations and related wrongful acts.

On January 23, 2019, a complaint was filed against Micron and two of our officers, Sanjay Mehrotra and David Zinsner, in the U.S. District Court for the Southern District of New York. The lawsuit purports to be brought on behalf of a class of purchasers of our stock during the period from June 22, 2018 through November 19, 2018. Subsequently two substantially similar cases were filed in the same court adding one of our former officers, Ernie Maddock, as a defendant and alleging a class action period from September 26, 2017 through November 19, 2018. The separate cases were joined, and a consolidated amended complaint was filed on June 15, 2019. The consolidated amended complaint alleges that defendants committed securities fraud through misrepresentations and omissions about purported anticompetitive behavior in the DRAM industry and seek compensatory and punitive damages, fees, interest, costs, and other appropriate relief.

On March 5, 2019, a shareholder derivative complaint was filed in the U.S. District Court for the District of Delaware, allegedly on behalf of and for the benefit of Micron, against certain current and former officers and directors of Micron for alleged breaches of their fiduciary duties and other violations of law. The allegations are based on, among other things, purported false and misleading statements regarding anticompetitive behavior in the DRAM industry. The complaint seeks damages, fees, interest, costs, and other appropriate relief.

We are unable to predict the outcome of these matters and therefore cannot estimate the range of possible loss. The final resolution of these matters could result in significant liability and could have a material adverse effect on our business, results of operations, or financial condition.

New product and market development may be unsuccessful.

We are developing new products, including system-level memory and storage products and solutions, which complement our traditional products or leverage their underlying design or process technology. We have made significant investments in product and process technology and anticipate expending significant resources for new semiconductor product and system-level solution development over the next several years. Additionally, we are increasingly differentiating our products and solutions to meet the specific demands of our customers, which increases our reliance on our customer's ability to accurately forecast the end-customer's needs and preferences. As a result, our product demand forecasts may be impacted significantly by the strategic actions of our customers. In order to continue our success, we must develop, manufacture, and qualify the products our customers need at the time they need those products. The process to develop new products requires us to demonstrate advanced functionality and performance, often well in advance of a planned ramp of production, in order to secure design wins with our customers. In addition, some of our components have long lead-times, requiring us to place orders several months in advance of anticipated demand. Such long lead-times increase the risk of excess inventory or loss of sales in the event our forecasts vary substantially from actual demand. There can be no assurance of the following:

- that our product development efforts will be successful;
- that we will be able to cost-effectively manufacture new products;
- that we will be able to successfully market these products;
- that we will be able to establish or maintain key relationships with customers with specific chip set or design requirements;
- that we will be able to introduce new products into the market and qualify them with our customers on a timely basis;
- or
- that margins generated from sales of these products will allow us to recover costs of development efforts.

Our unsuccessful efforts to develop new products and solutions could have a material adverse effect on our business, results of operations, or financial condition.

Our joint ventures and strategic relationships involve numerous risks.

We have entered into strategic relationships to develop new manufacturing process technologies and products and to manufacture certain products, including our joint development partnership and our IMFT joint venture with Intel. In January 2019, we exercised our option to acquire Intel's interest in IMFT and, in the third quarter of 2019, Intel set the closing date of the transaction to occur on October 31, 2019. At closing, we expect to pay Intel approximately \$1.4 billion in cash for Intel's noncontrolling interest in IMFT and IMFT Member Debt. As of May 30, 2019, current debt included \$858 million of IMFT Member Debt.

Our joint ventures and strategic relationships are subject to various risks that could adversely affect the value of our investments and our results of operations, including the following:

- diverging interests between us and our partners and disagreements on the following:
 - ongoing or future development, manufacturing, or operational activities;
 - the amount, timing, or nature of further investments; and
 - commercial terms in our joint ventures or strategic relationships;
- competition from our partners;
- access by our partners to our proprietary product and process technology which they may use;
- difficulties in transferring technology to joint ventures;
- difficulties and delays in ramping production at joint ventures;
- limited control over the operations of our joint ventures;
- inability of our partners to meet their commitments to us or our joint ventures;
- differences in participation on funding capital investments in our joint ventures due to differing business models or long-term business goals;
- inadequate cash flows to fund increased capital requirements of our joint ventures;
- difficulties or delays in collecting amounts due to us from our joint ventures and partners;
- disputes with partners regarding the terms of arrangements, including the termination or discontinuance of our joint ventures, or that terms of such arrangements are unfavorable; and
- changes in tax, legal, or regulatory requirements that necessitate changes in the agreements with our partners.

Our pending acquisition of Intel's noncontrolling interest in IMFT may involve additional risks, including, but not limited to, an inability to sell the product IMFT produces, increases in underutilization charges, increase in R&D expenses, retention of key employees, and successful integration of IMFT.

Our joint ventures and strategic relationships, if unsuccessful, could have a material adverse effect on our business, results of operations, or financial condition.

Increases in sales of system solutions may increase our dependency upon specific customers and our costs to develop and qualify our system solutions.

Our development of system-level memory and storage products is dependent, in part, upon successfully identifying and meeting our customers' specifications for those products. Developing and manufacturing system-level products with specifications unique to a customer increases our reliance upon that customer for purchasing our products in sufficient volume, quantity, and in a timely manner. If we fail to identify or develop products on a timely basis, or at all, that comply with our customers' specifications or achieve design wins with our customers, we may experience a significant adverse impact on our revenues and margins. Even if our products meet customer specifications, our sales of system-level solutions are dependent upon our customers choosing our products over those of our competitors and purchasing our products at sufficient volumes and prices. Our competitors' products may be less costly, provide better performance, or include additional features when compared to our products. Our long-term ability to sell system-level memory and storage products is reliant upon our customers' ability to create, market, and sell their products containing our system-level solutions at sufficient volumes and prices in a timely manner. If we fail to successfully develop and market system-level products, our business, results of operations, or financial condition may be materially adversely affected.

Even if we are successful in selling system-level solutions to our customers in sufficient volume, we may be unable to generate sufficient profit if our per-unit manufacturing costs exceed our per-unit selling prices. Manufacturing system-level solutions to customer specifications requires a longer development cycle, as compared to discrete products, to design, test, and qualify, which may increase our costs. Additionally, some of our system solutions are increasingly dependent on sophisticated firmware that may require significant customization to meet customer specifications, which increases our costs and time to market. Additionally, we may need to update our firmware or develop new firmware as a result of new product introductions or

changes in customer specifications and/or industry standards, which increases our costs. System complexities and extended warranties for system-level products could also increase our warranty costs. Our failure to cost-effectively manufacture system-level solutions and/or firmware in a timely manner, may result in reduced demand for our system-level products, and could have a material adverse effect on our business, results of operations, or financial condition.

Products that fail to meet specifications, are defective, or that are otherwise incompatible with end uses could impose significant costs on us.

Products that do not meet specifications or that contain, or are perceived by our customers to contain, defects or that are otherwise incompatible with end uses could impose significant costs on us or otherwise materially adversely affect our business, results of operations, or financial condition. From time to time, we experience problems with nonconforming, defective, or incompatible products after we have shipped such products. In recent periods, we have further diversified and expanded our product offerings, which could potentially increase the chance that one or more of our products could fail to meet specifications in a particular application. Our products and solutions may be deemed fully or partially responsible for functions in our customers' products and may result in sharing or shifting of product or financial liability from our customers to us for costs incurred by the end user as a result of our customers' products failing to perform as specified. We could be adversely affected in several ways, including the following:

- we may be required or agree to compensate customers for costs incurred or damages caused by defective or incompatible products and to replace products;
- we could incur a decrease in revenue or adjustment to pricing commensurate with the reimbursement of such costs or alleged damages; and
- we may encounter adverse publicity, which could cause a decrease in sales of our products or harm our relationships with existing or potential customers.

Any of the foregoing items could have a material adverse effect on our business, results of operations, or financial condition.

We may be unable to protect our intellectual property or retain key employees who are knowledgeable of and develop our intellectual property.

We maintain a system of controls over our intellectual property, including U.S. and foreign patents, trademarks, copyrights, trade secrets, licensing arrangements, confidentiality procedures, non-disclosure agreements with employees, consultants, and vendors, and a general system of internal controls. Despite our system of controls over our intellectual property, it may be possible for our current or future competitors to obtain, copy, use, or disclose, illegally or otherwise, our product and process technology or other proprietary information. The laws of some foreign countries may not protect our intellectual property to the same degree as do U.S. laws and our confidentiality, non-disclosure, and non-compete agreements may be unenforceable or difficult and costly to enforce.

Additionally, our ability to maintain and develop intellectual property is dependent upon our ability to attract, develop, and retain highly skilled employees. Global competition for such skilled employees in our industry is intense. Due to the volatile nature of our industry and our operating results, a decline in our operating results and/or stock price may adversely affect our ability to retain key employees whose compensation is dependent, in part, upon the market price of our common stock, achieving certain performance metrics, levels of company profitability, or other financial or company-wide performance. If our competitors or future entrants into our industry are successful in hiring our employees, they may directly benefit from the knowledge these employees gained while they were under our employment.

Our inability to protect our intellectual property or retain key employees who are knowledgeable of and develop our intellectual property could have a material adverse effect on our business, results of operations, or financial condition.

Claims that our products or manufacturing processes infringe or otherwise violate the intellectual property rights of others, or failure to obtain or renew license agreements covering such intellectual property, could materially adversely affect our business, results of operations, or financial condition.

As is typical in the semiconductor and other high technology industries, from time to time others have asserted, and may in the future assert, that our products or manufacturing processes infringe upon, misappropriate, misuse, or otherwise violate their intellectual property rights. We are unable to predict the outcome of these assertions made against us. Any of these types of claims, regardless of the merits, could subject us to significant costs to defend or resolve such claims and may consume a substantial portion of management's time and attention. As a result of these claims, we may be required to:

- pay significant monetary damages, fines, royalties, or penalties;
- enter into license or settlement agreements covering such intellectual property rights;
- make material changes to or redesign our products and/or manufacturing processes; and/or
- cease manufacturing, having made, selling, offering for sale, importing, marketing, or using products and/or manufacturing processes in certain jurisdictions.

We may not be able to take any of the actions described above on commercially reasonable terms and any of the foregoing results could have a material adverse effect on our business, results of operations, or financial condition. (See "Part I. Financial Information – Item 1. Financial Statements – Notes to Consolidated Financial Statements – Contingencies.")

We have a number of intellectual property license agreements. Some of these license agreements require us to make one-time or periodic payments. We may need to obtain additional licenses or renew existing license agreements in the future. We are unable to predict whether these license agreements can be obtained or renewed on terms acceptable to us. The failure to obtain or renew licenses as necessary could have a material adverse effect on our business, results of operations, or financial condition.

Litigation could have a material adverse effect on our business, results of operations, or financial condition.

From time to time we are subject to various legal proceedings and claims that arise out of the ordinary conduct of our business or otherwise, both domestically and internationally. Any claim, with or without merit, could result in significant legal fees that could negatively impact our financial results, disrupt our operations, and require significant attention from our management. We could be subject to litigation or arbitration disputes arising from our relationships with vendors or customers, supply agreements, or contractual obligations with our subcontractors or business partners. We may also be associated with and subject to litigation arising from the actions of our subcontractors or business partners. We may also be subject to litigation as a result of indemnities we issue, primarily with our customers, the terms of our product warranties, and from product liability claims. As we continue to focus on developing system solutions with manufacturers of consumer products, including autonomous driving, augmented reality, and others, we may be exposed to greater potential for personal liability claims against us as a result of consumers' use of those products. There can be no assurance that we are adequately insured to protect against all claims and potential liabilities, and we may elect to self-insure with respect to certain matters. Exposures to various litigation could lead to significant costs and expenses as we defend claims, are required to pay damage awards, or enter into settlement agreements, any of which could have a material adverse effect on our business, results of operations, or financial condition.

If our manufacturing process is disrupted, our business, results of operations, or financial condition could be materially adversely affected.

We and our subcontractors manufacture products using highly complex processes that require technologically advanced equipment and continuous modification to improve yields and performance. Difficulties in the manufacturing process or the effects from a shift in product mix can reduce yields or disrupt production and may increase our per gigabit manufacturing costs. We and our subcontractors maintain operations and continuously implement new product and process technology at manufacturing facilities, which are widely dispersed in multiple locations in several countries including the United States, Singapore, Taiwan, Japan, Malaysia, and China. Additionally, our control over operations at IMFT is limited by our agreements with Intel. From time to time, there have been disruptions in the manufacturing process as a result of power outages, improperly functioning equipment, disruptions in supply of raw materials or components, equipment failures, earthquakes, or other environmental events. If production is disrupted for any reason, manufacturing yields may be adversely affected or we may be unable to meet our customers' requirements and they may purchase products from other suppliers. This could result in a significant increase in manufacturing costs, loss of revenues, or damage to customer relationships, any of which could have a material adverse effect on our business, results of operations, or financial condition.

Debt obligations could adversely affect our financial condition.

We have incurred in the past, and expect to incur in the future, debt to finance our capital investments, business acquisitions, and restructuring of our capital structure. As of May 30, 2019, we had debt with a carrying value of \$4.91 billion and may borrow up to an additional \$2.50 billion under an undrawn revolving credit facility. In addition, as of May 30, 2019, the conversion value in excess of principal of our convertible notes was \$443 million, based on the trading price of our common stock of \$33.32 per share on such date.

Our debt obligations could adversely impact us. For example, these obligations could:

- require us to use a large portion of our cash flow to pay principal and interest on debt, which will reduce the amount of cash flow available to fund working capital, capital expenditures, acquisitions, R&D expenditures, and other business activities;
- require us to use cash and/or issue shares of our common stock to settle any conversion obligations of our convertible notes;
- result in certain of our debt instruments being accelerated to be immediately due and payable or being deemed to be in default if certain terms of default are triggered, such as applicable cross payment default and/or cross-acceleration provisions;
- adversely impact our credit rating, which could increase future borrowing costs;
- limit our future ability to raise funds for capital expenditures, strategic acquisitions or business opportunities, R&D, and other general corporate requirements;
- restrict our ability to incur specified indebtedness, create or incur certain liens, and enter into sale-leaseback financing transactions;
- increase our vulnerability to adverse economic and semiconductor memory and storage industry conditions;
- increase our exposure to interest rate risk from variable rate indebtedness;
- continue to dilute our earnings per share as a result of the conversion provisions in our convertible notes; and
- require us to continue to pay cash amounts substantially in excess of the principal amounts upon settlement of our convertible notes to minimize dilution of our earnings per share.

Our ability to meet our payment obligations under our debt instruments depends on our ability to generate significant cash flows in the future. This, to some extent, is subject to market, economic, financial, competitive, legislative, and regulatory factors as well as other factors that are beyond our control. There can be no assurance that our business will generate cash flow from operations, or that additional capital will be available to us, in amounts sufficient to enable us to meet our debt payment obligations and to fund other liquidity needs. Additionally, events and circumstances may occur which would cause us to not be able to satisfy applicable draw-down conditions and utilize our revolving credit facility. If we are unable to generate sufficient cash flows to service our debt payment obligations, we may need to refinance or restructure our debt, sell assets, reduce or delay capital investments, or seek to raise additional capital. If we are unable to implement one or more of these alternatives, we may be unable to meet our debt payment obligations, which could have a material adverse effect on our business, results of operations, or financial condition.

We must attract, retain, and motivate highly skilled employees.

To remain competitive, we must attract, retain, and motivate executives and other highly skilled employees. Hiring and retaining qualified executives, engineers, technical staff, and sales representatives are critical to our business, and competition for experienced employees in our industry can be intense. Our inability to attract and retain key employees may inhibit our ability to maintain or expand our business operations. Additionally, changes to immigration policies in the numerous countries in which we operate, including the United States, may limit our ability to hire and/or retain talent in specific locations. If our total compensation programs and workplace culture cease to be viewed as competitive, our ability to attract, retain, and motivate employees could be weakened, which could have a material adverse effect on our business, results of operations, or financial condition.

The acquisition of our ownership interest in Inotera from Qimonda has been challenged by the administrator of the insolvency proceedings for Qimonda.

On January 20, 2011, Dr. Michael Jaffé, administrator for Qimonda's insolvency proceedings, filed suit against Micron and Micron Semiconductor B.V., our Netherlands subsidiary ("Micron B.V."), in the District Court of Munich, Civil Chamber. The complaint seeks to void, under Section 133 of the German Insolvency Act, a share purchase agreement between Micron B.V. and Qimonda signed in fall 2008, pursuant to which Micron B.V. purchased substantially all of Qimonda's shares of Inotera (the

"Inotera Shares"), representing approximately 18% of Inotera's outstanding shares as of May 30, 2019, and seeks an order requiring us to re-transfer those shares to the Qimonda estate. The complaint also seeks, among other things, to recover damages for the alleged value of the joint venture relationship with Inotera and to terminate, under Sections 103 or 133 of the German Insolvency Code, a patent cross-license between us and Qimonda entered into at the same time as the share purchase agreement.

Following a series of hearings with pleadings, arguments, and witnesses on behalf of the Qimonda estate, on March 13, 2014, the court issued judgments: (1) ordering Micron B.V. to pay approximately \$1 million in respect of certain Inotera Shares sold in connection with the original share purchase; (2) ordering Micron B.V. to disclose certain information with respect to any Inotera Shares sold by it to third parties; (3) ordering Micron B.V. to disclose the benefits derived by it from ownership of the Inotera Shares, including in particular, any profits distributed on the Inotera Shares and all other benefits; (4) denying Qimonda's claims against Micron for any damages relating to the joint venture relationship with Inotera; and (5) determining that Qimonda's obligations under the patent cross-license agreement are canceled. In addition, the Court issued interlocutory judgments ordering, among other things: (1) that Micron B.V. transfer to the Qimonda estate the Inotera Shares still owned by Micron B.V. and pay to the Qimonda estate compensation in an amount to be specified for any Inotera Shares sold to third parties; and (2) that Micron B.V. pay the Qimonda estate as compensation an amount to be specified for benefits derived by Micron B.V. from ownership of the Inotera Shares. The interlocutory judgments have no immediate, enforceable effect on us, and, accordingly, we expect to be able to continue to operate with full control of the Inotera Shares subject to further developments in the case. We have filed a notice of appeal, and the parties have submitted briefs to the appeals court.

We are unable to predict the outcome of the matter and, therefore, cannot estimate the range of possible loss. The final resolution of this lawsuit could result in the loss of the Inotera Shares or monetary damages, unspecified damages based on the benefits derived by Micron B.V. from the ownership of the Inotera Shares, and/or the termination of the patent cross-license, which could have a material adverse effect on our business, results of operations, or financial condition.

Breaches of our security systems, or those of our customers, suppliers, or business partners, could expose us to losses.

We maintain a system of controls over the physical security of our facilities. We also manage and store various proprietary information and sensitive or confidential data relating to our operations. In addition, we process, store, and transmit large amounts of data relating to our customers and employees, including sensitive personal information. Unauthorized persons or employees may gain access to our facilities or network systems to steal trade secrets or other proprietary information, compromise confidential information, create system disruptions, or cause shutdowns. These parties may also be able to develop and deploy viruses, worms, and other malicious software programs that disrupt our operations and create security vulnerabilities. Breaches of our physical security and attacks on our network systems, or breaches or attacks on our customers, suppliers, or business partners who have confidential or sensitive information regarding us and our customers and suppliers, could result in significant losses and damage our reputation with customers and suppliers and may expose us to litigation if the confidential information of our customers, suppliers, or employees is compromised. The forgoing could have a material adverse effect on our business, results of operations, or financial condition.

Changes in foreign currency exchange rates could materially adversely affect our business, results of operations, or financial condition.

Across our global operations, significant transactions and balances are denominated in currencies other than the U.S. dollar (our reporting currency), primarily the euro, Singapore dollar, New Taiwan dollar, and yen. Although we hedge our primary exposures to changes in currency exchange rates from our monetary assets and liabilities, the effectiveness of these hedges is dependent upon our ability to accurately forecast our monetary assets and liabilities. In addition, a significant portion of our manufacturing costs are denominated in foreign currencies. Exchange rates for some of these currencies against the U.S. dollar, particularly the yen, have been volatile in recent periods. If these currencies strengthen against the U.S. dollar, our manufacturing costs could significantly increase. Exchange rates for the U.S. dollar that adversely change against our foreign currency exposures could have a material adverse effect on our business, results of operations, or financial condition.

We may make future acquisitions and/or alliances, which involve numerous risks.

Acquisitions and the formation or operation of alliances, such as joint ventures and other partnering arrangements, involve numerous risks, including the following:

- integrating the operations, technologies, and products of acquired or newly formed entities into our operations;
- increasing capital expenditures to upgrade and maintain facilities;
- increased debt levels;

- the assumption of unknown or underestimated liabilities;
- the use of cash to finance a transaction, which may reduce the availability of cash to fund working capital, capital expenditures, R&D expenditures, and other business activities;
- diverting management's attention from daily operations;
- managing larger or more complex operations and facilities and employees in separate and diverse geographic areas;
- hiring and retaining key employees;
- requirements imposed by governmental authorities in connection with the regulatory review of a transaction, which may include, among other things, divestitures or restrictions on the conduct of our business or the acquired business;
- inability to realize synergies or other expected benefits;
- failure to maintain customer, vendor, and other relationships;
- inadequacy or ineffectiveness of an acquired company's internal financial controls, disclosure controls and procedures, compliance programs, and/or environmental, health and safety, anti-corruption, human resource, or other policies or practices; and
- impairment of acquired intangible assets, goodwill, or other assets as a result of changing business conditions, technological advancements, or worse-than-expected performance of the acquired business.

In previous years, supply of memory and storage products has significantly exceeded customer demand resulting in significant declines in average selling prices. The global memory and storage industry has experienced consolidation and may continue to consolidate. We engage, from time to time, in discussions regarding potential acquisitions and similar opportunities. To the extent we are successful in completing any such transactions, we could be subject to some or all of the risks described above, including the risks pertaining to funding, assumption of liabilities, integration challenges, and increases in debt that may accompany such transactions. Acquisitions of, or alliances with, technology companies are inherently risky and may not be successful and could have a material adverse effect on our business, results of operations, or financial condition.

A downturn in the worldwide economy may harm our business.

Downturns in the worldwide economy have harmed our business in the past and future downturns could also adversely affect our business. Adverse economic conditions affect demand for devices that incorporate our products, such as personal computers, mobile devices, SSDs, and servers. Reduced demand for these products could result in significant decreases in our average selling prices and product sales. A deterioration of current conditions in worldwide credit markets could limit our ability to obtain external financing to fund our operations and capital expenditures. In addition, we may experience losses on our holdings of cash and investments due to failures of financial institutions and other parties. Difficult economic conditions may also result in a higher rate of losses on our accounts receivables due to credit defaults. As a result, a downturn in the worldwide economy could have a material adverse effect on our business, results of operations, or financial condition.

Our results of operations could be affected by natural disasters and other events in the locations in which we or our customers or suppliers operate.

We have manufacturing and other operations in locations subject to natural occurrences such as severe weather and geological events, including earthquakes or tsunamis, that could disrupt operations or result in construction delays. In addition, our suppliers and customers also have operations in such locations. A natural disaster, fire, explosion, or other event that results in a prolonged disruption to our operations, or the operations of our customers or suppliers, could have a material adverse effect on our business, results of operations, or financial condition.

Our incentives from various governments are conditional upon achieving or maintaining certain performance obligations and are subject to reduction, termination, or clawback.

We have received, and may in the future continue to receive, benefits and incentives from national, state, and local governments in various regions of the world designed to encourage us to establish, maintain, or increase investment, workforce, or production in those regions. These incentives may take various forms, including grants, loan subsidies, and tax arrangements, and typically require us to perform or maintain certain levels of investment, capital spending, employment, technology deployment, or research and development activities to qualify for such incentives. We cannot guarantee that we will successfully achieve performance obligations required to qualify for these incentives or that the granting agencies will provide such funding. These incentive arrangements typically provide the granting agencies with rights to audit our performance with the terms and obligations. Such audits could result in modifications to, or termination of, the applicable incentive program. The incentives we receive could be subject to reduction, termination, or clawback, and any decrease or clawback of government incentives could have a material adverse effect on our business, results of operations, or financial condition.

A change in tax laws in key jurisdictions could materially increase our tax expense.

We are subject to income taxes in the U.S. and many foreign jurisdictions. Changes to income tax laws and regulations in any of the jurisdictions in which we operate, or in the interpretation of such laws, could significantly increase our effective tax rate and ultimately reduce our cash flow from operating activities and otherwise have a material adverse effect on our financial condition. For example, as a result of the Tax Cuts and Jobs Act (the "Tax Act") enacted on December 22, 2017 by the United States, our effective tax rate was 9.7% in the first nine months of 2019. The U.S. Treasury Department continues to issue interpretive guidance on the Tax Act, including the Repatriation Tax, foreign tax credits, Foreign Minimum Tax, foreign derived intangible income, and interest expense deduction limitations. It is anticipated that the guidance will be finalized over the next several months. Additionally, various levels of government are increasingly focused on tax reform and other legislative actions to increase tax revenue. Further changes in the tax laws of foreign jurisdictions could arise as a result of the base erosion and profit shifting project undertaken by the Organization for Economic Co-operation and Development, which represents a coalition of member countries and recommended changes to numerous long-standing tax principles. If adopted by countries, such changes, as well as changes in U.S. federal and state tax laws or in taxing jurisdictions' administrative interpretations, decisions, policies, and positions, could have a material adverse effect on our business, results of operations, or financial condition.

We may incur additional tax expense or become subject to additional tax exposure.

We operate in a number of locations outside the United States, including Singapore, where we have tax incentive arrangements that are conditional, in part, upon meeting certain business operations and employment thresholds. Our domestic and international taxes are dependent upon the geographic mix of our earnings among these jurisdictions. Our provision for income taxes and cash tax liabilities in the future could be adversely affected by numerous factors, including challenges by tax authorities to our tax positions and intercompany transfer pricing arrangements, failure to meet performance obligations with respect to tax incentive agreements, expanding our operations in various countries, and changes in tax laws and regulations. Additionally, we file income tax returns with the U.S. federal government, various U.S. states, and various other jurisdictions throughout the world and certain tax returns may remain open to examination for several years. The results of audits and examinations of previously filed tax returns and continuing assessments of our tax exposures may have an adverse effect on our provision for income taxes and cash tax liability. The foregoing items could have a material adverse effect on our business, results of operations, or financial condition.

We may incur additional restructuring charges in future periods.

From time to time, we have, and may in the future, enter into restructure initiatives in order to, among other items, streamline our operations, respond to changes in business conditions, our markets or product offerings, or to centralize certain key functions. We may not realize expected savings or other benefits from our restructure activities and may incur additional restructure charges or other losses in future periods associated with other initiatives. In connection with any restructure initiatives, we could incur restructure charges, loss of production output, loss of key personnel, disruptions in our operations, and difficulties in the timely delivery of products, which could have a material adverse effect on our business, results of operations, or financial condition.

Compliance with customer requirements and regulations regarding the use of conflict minerals could limit the supply and increase the cost of certain metals used in manufacturing our products.

Increased focus on environmental protection and social responsibility initiatives led to the passage of Section 1502 of the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010 (the "Dodd-Frank Act") and its implementing SEC regulations. The Dodd-Frank Act imposes supply chain diligence and disclosure requirements for certain manufacturers of products containing specific minerals that may originate in or near the Democratic Republic of the Congo ("DRC") and finance or benefit local armed groups. These "conflict minerals" are commonly found in materials used in the manufacture of semiconductors. The implementation of these regulations may limit the sourcing and availability of some of these materials. This in turn may affect our ability to obtain materials necessary for the manufacture of our products in sufficient quantities and may affect related material pricing. Some of our customers may elect to disqualify us as a supplier or reduce purchases from us if we are unable to verify that our products are DRC conflict free. In addition, many of our customers have or are planning to adopt responsible sourcing programs with requirements that are broader in terms of minerals and geographies than DRC conflict minerals programs. Our inability to comply with requirements regarding the use of conflict and other minerals could have a material adverse effect on our business, results of operations, or financial condition.

We and others are subject to a variety of laws and regulations that may result in additional costs and liabilities.

The manufacturing of our products requires the use of facilities, equipment, and materials that are subject to a broad array of laws and regulations in numerous jurisdictions in which we operate. Additionally, we are subject to a variety of other laws and regulations relative to the construction, maintenance, and operations of our facilities. Any of these laws or regulations could cause us to incur additional direct costs, as well as increased indirect costs related to our relationships with our customers and suppliers, and otherwise harm our operations and financial condition. Any failure to comply with these laws or regulations could adversely impact our reputation and our financial results. Additionally, we engage various third parties to represent us or otherwise act on our behalf and we partner with other companies in our joint ventures, all of whom are also subject to a broad array of laws and regulations. Our engagement with these third parties and our ownership in these joint ventures may also expose us to risks associated with their respective compliance with these laws and regulations. As a result of these items, we could experience the following:

- suspension of production;
- remediation costs;
- alteration of our manufacturing processes;
- regulatory penalties, fines, and legal liabilities; and
- reputational challenges.

Our failure, or the failure of our third-party agents or joint ventures, to comply with these laws and regulations could have a material adverse effect on our business, results of operations, or financial condition.

We are subject to counterparty default risks.

We have numerous arrangements with financial institutions that subject us to counterparty default risks, including cash deposits, investments, capped call contracts on our common stock, and derivative instruments. As a result, we are subject to the risk that the counterparty to one or more of these arrangements will default on its performance obligations. A counterparty may not comply with their contractual commitments which could then lead to their defaulting on their obligations with little or no notice to us, which could limit our ability to take action to mitigate our exposure. Additionally, our ability to mitigate our exposures may be constrained by the terms of our contractual arrangements or because market conditions prevent us from taking effective action. If one of our counterparties becomes insolvent or files for bankruptcy, our ability to recover any losses suffered as a result of that counterparty's default may be limited by the liquidity of the counterparty or the applicable laws governing the bankruptcy proceedings. In the event of such default, we could incur significant losses, which could have a material adverse effect on our business, results of operations, or financial condition.

The operations of MMJ are subject to continued oversight by the Tokyo District Court during the pendency of the corporate reorganization proceedings.

Because MMJ's plan of reorganization provides for ongoing payments to creditors following the closing of our acquisition of MMJ, the reorganization proceedings in Japan (the "Japan Proceedings") are continuing and MMJ remains subject to the oversight of the Tokyo District Court and of the trustees (including a trustee designated by us, who we refer to as the business trustee, and a trustee designated by the Tokyo District Court, who we refer to as the legal trustee), pending completion of the reorganization proceedings. The business trustee is responsible for overseeing the operation of the business of MMJ, other than oversight in relation to acts that need to be carried out in connection with the Japan Proceedings, which are the responsibility of the legal trustee. MMJ's reorganization proceedings in Japan, and oversight of the Tokyo District Court, will continue until the final creditor payment is made under MMJ's plan of reorganization, which is scheduled to occur in December 2019, but may occur on a later date to the extent any claims of creditors remain unfixed on the final scheduled installment payment date. MMJ may petition the Tokyo District Court for an early termination of the reorganization proceedings once two-thirds of all payments under the plan of reorganization are made. Although such early terminations are customarily granted, there can be no assurance that the Tokyo District Court will grant any such petition in this particular case.

During the pendency of the reorganization proceedings in Japan, MMJ is obligated to provide periodic financial reports to the Tokyo District Court and may be required to obtain the consent of the Tokyo District Court prior to taking a number of significant actions relating to its businesses, including transferring or disposing of, or acquiring, certain material assets, incurring or guaranteeing material indebtedness, settling material disputes, or entering into certain material agreements. The consent of the legal trustee may also be required for matters that would likely have a material impact on the operations or assets of MMJ or for transfers of material assets, to the extent the matters or transfers would reasonably be expected to materially and adversely affect execution of MMJ's plan of reorganization. Accordingly, during the pendency of the reorganization proceedings in Japan, our ability to operate MMJ as part of our global business or to cause MMJ to take certain actions that we

deem advisable for its business could be adversely affected if the Tokyo District Court or the legal trustee is unwilling to consent to various actions that we may wish to take with respect to MMJ.

The operations of MMJ being subject to the continued oversight by the Tokyo District Court during the pendency of the corporate reorganization proceedings could have a material adverse effect on our business, results of operations, or financial condition.

ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS

In May 2018, we announced that our Board of Directors had authorized the discretionary repurchase of up to \$10 billion of our outstanding common stock beginning in 2019. We may purchase shares on a discretionary basis through open-market purchases, block trades, privately-negotiated transactions, and/or derivative transactions, subject to market conditions and our ongoing determination of the best use of available cash. The repurchase authorization does not obligate us to acquire any common stock.

Period		(a) Total number of shares purchased	(b) Average price paid per share	(c) Total number of shares (or units) purchased as part of publicly announced plans or programs	(d) Maximum number (or approximate dollar value) of shares (or units) that may yet be purchased under publicly announced plans or programs
March 1, 2019	– April 4, 2019	225,000	\$ 42.32	225,000	
April 5, 2019	– May 2, 2019	2,118,700	42.69	2,118,700	
May 3, 2019	– May 30, 2019	1,431,200	39.86	1,431,200	
		<u>3,774,900</u>			\$ 7,337,838,234

Shares of common stock withheld as payment of withholding taxes and exercise prices in connection with the vesting or exercise of equity awards are also treated as common stock repurchases. Those withheld shares of common stock are not considered common stock repurchases under an authorized common stock repurchase plan and accordingly are excluded from the amounts in the table above.

6. Exhibits

Exhibit Number	Description of Exhibit	Filed Herewith	Form	Period Ending	Exhibit/ Appendix	Filing Date
3.1	Restated Certificate of Incorporation of the Registrant		8-K		99.2	1/26/15
3.2	Bylaws of the Registrant, Amended and Restated		8-K		99.1	1/22/19
31.1	Rule 13a-14(a) Certification of Chief Executive Officer	✓				
31.2	Rule 13a-14(a) Certification of Chief Financial Officer	✓				
32.1	Certification of Chief Executive Officer Pursuant to 18 U.S.C. 1350	✓				
32.2	Certification of Chief Financial Officer Pursuant to 18 U.S.C. 1350	✓				
101.INS	XBRL Instance Document	✓				
101.SCH	XBRL Taxonomy Extension Schema Document	✓				
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document	✓				
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document	✓				
101.LAB	XBRL Taxonomy Extension Label Linkbase Document	✓				
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document	✓				

SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

Micron Technology, Inc.

(Registrant)

Date: June 26, 2019

/s/ David A. Zinsner

David A. Zinsner
Senior Vice President and Chief Financial Officer
(Principal Financial and Accounting Officer)

**RULE 13a-14(a) CERTIFICATION OF
CHIEF EXECUTIVE OFFICER**

I, Sanjay Mehrotra, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Micron Technology, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations, and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize, and report financial information; and
 - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: June 26, 2019

/s/ Sanjay Mehrotra

Sanjay Mehrotra
President and Chief Executive Officer and Director

**RULE 13a-14(a) CERTIFICATION OF
CHIEF FINANCIAL OFFICER**

I, David A. Zinsner, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Micron Technology, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations, and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize, and report financial information; and
 - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: June 26, 2019

/s/ David A. Zinsner

David A. Zinsner

Senior Vice President and Chief Financial Officer

**CERTIFICATION OF CHIEF EXECUTIVE OFFICER
PURSUANT TO 18 U.S.C. 1350**

I, Sanjay Mehrotra, certify, pursuant to 18 U.S.C. 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that the Quarterly Report of Micron Technology, Inc. on Form 10-Q for the period ended May 30, 2019, fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 and that information contained in the Quarterly Report on Form 10-Q fairly presents, in all material respects, the financial condition and results of operations of Micron Technology, Inc.

Date: June 26, 2019

/s/ Sanjay Mehrotra

Sanjay Mehrotra

President and Chief Executive Officer and Director

**CERTIFICATION OF CHIEF FINANCIAL OFFICER
PURSUANT TO 18 U.S.C. 1350**

I, David A. Zinsner, certify, pursuant to 18 U.S.C. 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that the Quarterly Report of Micron Technology, Inc. on Form 10-Q for the period ended May 30, 2019, fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 and that information contained in the Quarterly Report on Form 10-Q fairly presents, in all material respects, the financial condition and results of operations of Micron Technology, Inc.

Date: June 26, 2019

/s/ David A. Zinsner

David A. Zinsner

Senior Vice President and Chief Financial Officer