LATTICE SEMICONDUCTOR CORP

Form 10-Q August 03, 2018 Table of Contents

Exchange Act. []

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 JUNE 30, 2018 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 000-18032 LATTICE SEMICONDUCTOR CORPORATION (Exact name of Registrant as specified in its charter) State of Delaware 93-0835214 (State or other jurisdiction of incorporation or (I.R.S. Employer Identification No.) organization) 111 SW Fifth Ave, Ste 700, Portland, OR 97204 (Address of principal executive offices) (Zip Code) (503) 268-8000 (Registrant's telephone number, including area code) 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 [X] No [] Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period as the registrant was required to submit and post such files). Yes [X] 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. (Check one): Large accelerated filer [] Accelerated filer [X] Smaller reporting Non-accelerated filer [] (Do not check if a smaller reporting company) 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

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes $[\]$ No [X]

Number of shares of common stock outstanding as of July 31, 2018

126,759,313

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Forward-Looking Statements

This Quarterly Report on Form 10-Q contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. These involve estimates, assumptions, risks, and uncertainties. Any statements about our expectations, beliefs, plans, objectives, assumptions, or future events or performance are not historical facts and may be forward-looking. We use words or phrases such as "anticipates," "believes," "could," "estimates," "expects," "intends," "plans," "predicts," "projects," "should," "continue," "ongoing," "future," "potential," and similar words or phrases to identify forward-looking statements.

Examples of forward-looking statements include, but are not limited to, statements about: our transitions to newly adopted accounting standards; the effect of new accounting standards on our consolidated financial statements and financial results; the effects of sales mix on our gross margin in the future; our strategies and beliefs regarding the markets in which we compete or may compete; our future investments in research and development; our expectations regarding cash provided by or used in operating activities; our expectations regarding our ability to service our debt obligations; our expectations regarding restructuring charges under and timing of restructuring plans; our expectation regarding payment of U.S. federal income taxes; the sufficiency of our financial resources to meet our operating and working capital needs through at least the next 12 months; our intention to continually introduce new products and enhancements and reduce manufacturing costs; our expectation of production volumes and the associated revenue streams for certain mobile handset providers; our continued participation in or sources of revenue from standard setting initiatives or consortia that develop and promote the High-Definition Multimedia Interface ("HDMI") and Mobile High-Definition Link ("MHL") specifications including our expectations regarding sharing of HDMI royalty revenues; our plans to continue to monetize our patent portfolio through sales of non-core patents; our ability to adequately remediate our material weakness; the adequacy of assembly and test capacity commitments; our expectations regarding taxes and tax adjustments, particularly with respect to the 2017 Tax Act; our valuation allowance and uncertain tax positions; our beliefs regarding the adequacy of our liquidity, capital resources and facilities; our expectations regarding our implementation of a company-wide enterprise resource planning system; and our expectations regarding the impact of sanctions imposed by the United States Department of Commerce.

Forward-looking statements involve estimates, assumptions, risks, and uncertainties that could cause actual results to differ materially from those expressed in the forward-looking statements. The key factors, among others, that could cause our actual results to differ materially from the forward-looking statements included global economic conditions and uncertainty, including as a result of trade related restrictions or tariffs, the concentration of our sales in certain end markets, particularly as it relates to the concentration of our sales in the Asia Pacific region, market acceptance and demand for our existing and new products, our ability to license our intellectual property, any disruption of our distribution channels, the impact of competitive products and pricing, unexpected charges, delays or results relating to our restructuring plans, unexpected complications with our implementation of a company-wide enterprise resource planning system, the effect of any downturn in the economy on capital markets and credit markets, unanticipated taxation requirements or positions of the U.S. Internal Revenue Service or other taxing authority, unanticipated effects of tax reform, or unexpected impacts of accounting guidance. In addition, actual results are subject to other risks and uncertainties that relate more broadly to our overall business, including those more fully described herein and that are otherwise described from time to time in our filings with the Securities and Exchange Commission, including, but not limited to, the items discussed in "Risk Factors" in Item 1A of Part II of this Quarterly Report on Form 10-Q.

You should not unduly rely on forward-looking statements because our actual results could differ materially from those expressed in any forward-looking statements made by us. In addition, any forward-looking statement applies only as of the date on which it is made. We do not plan to, and undertake no obligation to, update any forward-looking statements to reflect events or circumstances that occur after the date on which such statements are made or to reflect the occurrence of unanticipated events.

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PART I. FINANCIAL INFORMATION

ITEM 1. FINANCIAL STATEMENTS

LATTICE SEMICONDUCTOR CORPORATION CONSOLIDATED STATEMENTS OF OPERATIONS (unaudited)

	Three Mo	nths Ended	Six Month	s Ended
	June 30,	July 1,	June 30,	July 1,
(In thousands, except per share data)	2018	2017	2018	2017
Revenue:				
Product	\$98,294	\$83,168	\$193,403	\$175,837
Licensing and services	4,421	10,969	7,935	22,887
Total revenue	102,715	94,137	201,338	198,724
Costs and expenses:				
Cost of product revenue	52,208	40,749	94,310	82,363
Cost of licensing and services revenue	259	2,179	259	4,320
Research and development	21,081	26,820	44,022	54,209
Selling, general, and administrative	21,068	21,938	48,111	45,843
Amortization of acquired intangible assets	4,523	8,737	10,159	17,251
Restructuring charges	4,376	1,576	5,405	1,642
Acquisition related charges	864	867	1,531	2,527
Impairment of acquired intangible assets	11,900	_	11,900	_
Total costs and expenses	116,279	102,866	215,697	208,155
Loss from operations	(13,564)	(8,729)	(14,359)	(9,431)
Interest expense	(4,968)	(4,656)	(10,082)	(10,224)
Other (expense) income, net	(348)	410	206	(77)
Loss before income taxes	(18,880)	(12,975)	(24,235)	(19,732)
Income tax expense	1,343	47	1,940	565
Net loss	\$(20,223)	\$(13,022)	\$(26,175)	\$(20,297)
Net loss per share, basic and diluted	\$(0.16)	\$(0.11)	\$(0.21)	\$(0.17)
Shares used in per share calculations, basic and diluted	124,843	122,390	124,460	122,095

See Accompanying Notes to Unaudited Consolidated Financial Statements.

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LATTICE SEMICONDUCTOR CORPORATION CONSOLIDATED STATEMENTS OF COMPREHENSIVE LOSS (unaudited)

	Three Mor	nths Ended	Six Month	s Ended
(In thousands)	June 30,	July 1,	June 30,	July 1,
(In thousands)	2018	2017	2018	2017
Net loss	\$(20,223)	\$(13,022)	\$(26,175)	\$(20,297)
Other comprehensive loss:				
Unrealized gain (loss) related to marketable securities, net of tax	9	(28)	2	(71)
Reclassification adjustment for losses (gains) related to marketable		30	(1)	200
securities included in other (expense) income, net of tax		30	(1)	200
Translation adjustment, net of tax	(1,129)	676	(540)	950
Change in actuarial valuation of defined benefit pension		(47)	_	(47)
Comprehensive loss	\$(21,343)	\$(12,391)	\$(26,714)	\$(19,265)

See Accompanying Notes to Unaudited Consolidated Financial Statements.

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LATTICE SEMICONDUCTOR CORPORATION CONSOLIDATED BALANCE SHEETS (unaudited)

(In thousands, except share and par value data)	June 30, 2018	December 3 2017	30,
ASSETS			
Current assets:			
Cash and cash equivalents	\$93,699	\$ 106,815	
Short-term marketable securities	12,086	4,982	
Accounts receivable, net of allowance for doubtful accounts	76,566	55,104	
Inventories	65,586	79,903	
Prepaid expenses and other current assets	21,729	16,567	
Total current assets	269,666	263,371	
Property and equipment, less accumulated depreciation of \$137,883 at June 30, 2018 and \$131,260 at December 30, 2017	36,418	40,423	
Intangible assets, net	29,189	51,308	
Goodwill	267,514	267,514	
Deferred income taxes	192	198	
Other long-term assets	20,225	13,147	
Total assets	\$623,204	\$ 635,961	
LIABILITIES AND STOCKHOLDERS' EQUITY			
Current liabilities:			
Accounts payable and accrued expenses (includes restructuring)	\$53,500	\$ 54,405	
Accrued payroll obligations	8,700	10,416	
Current portion of long-term debt	24,526	1,508	
Deferred income and allowances on sales to distributors	_	17,250	
Deferred licensing and services revenue		68	
Total current liabilities	86,726	83,647	
Long-term debt	265,699	299,667	
Other long-term liabilities	40,159	34,954	
Total liabilities	392,584	418,268	
Contingencies (Note 16)		_	
Stockholders' equity:			
Preferred stock, \$.01 par value, 10,000,000 shares authorized, none issued and outstanding Common stock, \$.01 par value, 300,000,000 shares authorized; 125,613,000 shares issued	_	_	
and outstanding as of June 30, 2018 and 123,895,000 shares issued and outstanding as of December 30, 2017	1,256	1,239	
Additional paid-in capital	707,991	695,768	
Accumulated deficit	(476,636)	•)
Accumulated other comprehensive loss		(1,452)
Total stockholders' equity	230,620	217,693	,
Total liabilities and stockholders' equity	\$623,204	\$ 635,961	
Town machines and stockholders equity	Ψ 023,20 T	Ψ 000,701	

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LATTICE SEMICONDUCTOR CORPORATION CONSOLIDATED STATEMENTS OF CASH FLOWS (unaudited)

(In thousands)	Six Montl June 30, 2018	ns Ended July 1, 2017
Cash flows from operating activities: Net loss	\$ (26 175)	\$(20,297)
Adjustments to reconcile net loss to net cash provided by operating activities:	\$(20,173)	β (20,291)
Depreciation and amortization	22,425	30,497
Impairment of acquired intangible assets	11,900	_
Amortization of debt issuance costs and discount	1,058	1,354
(Gain) loss on sale or maturity of marketable securities		200
Gain on forward contracts	` '	(26)
Stock-based compensation expense	7,200	6,772
Gain on disposal of fixed assets		(61)
Gain on sale of assets and business units		(300)
Impairment of cost-method investment		493
Changes in assets and liabilities:		
Accounts receivable, net	(19,654	12,846
Inventories	14,687	689
Prepaid expenses and other assets	(7,891	2,822
Accounts payable and accrued expenses (includes restructuring)	7,095	(13,554)
Accrued payroll obligations	(1,716	(1,894)
Income taxes payable	851	(355)
Deferred income and allowances on sales to distributors	_	(7,342)
Deferred licensing and services revenue		(330)
Net cash provided by operating activities	9,582	11,514
Cash flows from investing activities:		
Proceeds from sales of and maturities of short-term marketable securities	2,500	7,200
Purchases of marketable securities		(7,420)
Capital expenditures	(4,105	(7,035)
Proceeds from sale of assets and business units		300
Short-term loan to cost-method investee		(1,000)
Cash paid for software licenses		(4,149)
Net cash used in investing activities	(15,189)	(12,104)
Cash flows from financing activities:		
Restricted stock unit tax withholdings		(1,748)
Proceeds from issuance of common stock	6,409	2,931
Repayment of debt		(33,679)
Net cash used in financing activities		(32,496)
Effect of exchange rate change on cash	` ,	950
Net decrease in cash and cash equivalents		(32,136)
Beginning cash and cash equivalents	106,815	106,552
Ending cash and cash equivalents	\$93,699	\$74,416
Supplemental cash flow information:	Φ.(2	φ. φ. 7.1
	\$(2)	\$71

Change in unrealized (gain) loss related to marketable securities, net of tax, included in

Accumulated other comprehensive loss

Income taxes paid, net of refunds	\$2,057	\$976
Interest paid	\$9,177	\$12,094
Accrued purchases of plant and equipment	\$354	\$2,216

See Accompanying Notes to Unaudited Consolidated Financial Statements.

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LATTICE SEMICONDUCTOR CORPORATION NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Unaudited)

Note 1 - Basis of Presentation and Significant Accounting Policies

The accompanying Consolidated Financial Statements are unaudited and have been prepared by Lattice Semiconductor Corporation ("Lattice," the "Company," "we," "us," or "our") pursuant to the rules and regulations of the Securities and Exchange Commission ("SEC") and in our opinion include all adjustments, consisting only of normal recurring adjustments, necessary for the fair presentation of results for the interim periods. Certain information and footnote disclosures normally included in financial statements prepared in accordance with U.S. generally accepted accounting principles ("U.S. GAAP") have been condensed or omitted as permitted by the SEC's rules and regulations. These Consolidated Financial Statements should be read in conjunction with our audited financial statements and notes thereto included in our Annual Report on Form 10-K for the fiscal year ended December 30, 2017.

Fiscal Reporting Period

We report based on a 52 or 53-week fiscal year ending on the Saturday closest to December 31. Our second quarter of fiscal 2018 and second quarter of fiscal 2017 ended on June 30, 2018 and July 1, 2017, respectively. All references to quarterly or six months ended financial results are references to the results for the relevant 13-week or 26-week fiscal period.

Principles of Consolidation and Presentation

The accompanying Consolidated Financial Statements include the accounts of Lattice and its subsidiaries after the elimination of all intercompany balances and transactions.

Reclassifications

Certain amounts in the prior fiscal year in the accompanying consolidated financial statements and notes thereto have been reclassified to conform to the presentation adopted in the current fiscal year. These reclassifications had no material effect on the results of operations or financial position for any period presented. We had previously treated an investment as an equity-method investment and reported equity in net loss of an unconsolidated affiliate separately, amounting to approximately \$0.2 million and \$0.5 million for the second quarter and first six months, respectively, of fiscal 2017. We have reclassified the prior year loss to Other (expense) income, net on our Consolidated Statements of Operations to be consistent with the current year treatment of the investment as a cost-method investment.

Use of Estimates

The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts and classification of assets, such as marketable securities, accounts receivable, contract assets (included in prepaid expenses and other current assets), inventory, goodwill (including the assessment of reporting units), intangible assets, current and deferred income taxes, accrued liabilities (including restructuring charges and bonus arrangements), disclosure of contingent assets and liabilities at the date of the financial statements, amounts used in acquisition valuations and purchase accounting, impairment assessments, and the reported amounts of product revenue, licensing and services revenue, and expenses during the fiscal periods presented. Actual results could differ from those estimates.

Cash Equivalents and Marketable Securities

We consider all investments that are readily convertible into cash and that have original maturities of three months or less to be cash equivalents. Cash equivalents consist primarily of highly liquid investments in time deposits or money market accounts and are carried at cost. We account for marketable securities as available-for-sale investments, as defined by U.S. GAAP, and record unrealized gains or losses to Accumulated other comprehensive loss on our Consolidated Balance Sheets, unless losses are considered other than temporary, in which case, those are recorded directly to the Consolidated Statements of Operations and Consolidated Statements of Comprehensive Loss. Deposits with financial institutions at times exceed Federal Deposit Insurance Corporation insurance limits.

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Fair Value of Financial Instruments

We invest in various financial instruments, which may include corporate and government bonds, notes, and commercial paper. We value these instruments at their fair value and monitor our portfolio for impairment on a periodic basis. In the event that the carrying value of an investment exceeds its fair value and the decline in value is determined to be other than temporary, we would record an impairment charge and establish a new carrying value. We assess other than temporary impairment of marketable securities in accordance with Financial Accounting Standards Board ("FASB") Accounting Standards Codification ("ASC") 820, "Fair Value Measurements." The framework under the provisions of ASC 820 establishes three levels of inputs that may be used to measure fair value. Each level of input has different levels of subjectivity and difficulty involved in determining fair value.

Level 1 instruments generally represent quoted prices for identical assets or liabilities in active markets. Therefore, determining fair value for Level 1 instruments generally does not require significant management judgment, and the estimation is not difficult. Our Level 1 instruments consist of U.S. Government agency obligations, corporate notes and bonds, and commercial paper that are traded in active markets and are classified as Short-term marketable securities on our Consolidated Balance Sheets.

Level 2 instruments include inputs other than Level 1 that are observable, either directly or indirectly, such as quoted prices for similar assets or liabilities, quoted prices for identical instruments in markets that are not active, or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities. Our Level 2 instruments consist of foreign currency exchange contracts entered into to hedge against fluctuation in the Japanese yen.

Level 3 instruments include unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities. As a result, the determination of fair value for Level 3 instruments requires significant management judgment and subjectivity. We did not have any Level 3 instruments during the periods presented.

Foreign Exchange and Translation of Foreign Currencies

While our revenues and the majority of our expenses are denominated in U.S. dollars, we have international subsidiary and branch operations that conduct some transactions in foreign currencies, and we collect an annual Japanese consumption tax refund in yen. Gains or losses from foreign exchange rate fluctuations on balances denominated in foreign currencies are reflected in Other (expense) income, net. Realized gains or losses on foreign currency transactions were not significant for the periods presented.

We translate accounts denominated in foreign currencies in accordance with ASC 830, "Foreign Currency Matters," using the current rate method under which asset and liability accounts are translated at the current rate, while stockholders' equity accounts are translated at the appropriate historical rates, and revenue and expense accounts are translated at average monthly exchange rates. Translation adjustments related to the consolidation of foreign subsidiary financial statements are reflected in Accumulated other comprehensive loss in Stockholders' equity (see "Note 11 - Changes in Stockholders' Equity and Accumulated Other Comprehensive Loss").

Derivative Financial Instruments

We mitigate foreign currency exchange rate risk by entering into foreign currency forward exchange contracts, details of which are presented in the following table:

June 30, December 30, 2018 2017

Total cost of contracts for Japanese yen (in thousands) \$1,031 \$2,204 Number of contracts 1 2 Settlement month 301 June 3018

Although these hedges mitigate our foreign currency exchange rate exposure from an economic perspective, they were not designated as "effective" hedges for accounting purposes and as such are adjusted to fair value through Other (expense) income, net, with a gain of less than \$0.1 million for the fiscal quarter ended June 30, 2018 and a gain of approximately \$0.1 million for the fiscal quarter ended December 30, 2017. We do not hold or issue derivative financial instruments for trading or speculative purposes.

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Concentration Risk

Potential exposure to concentration risk may impact revenue, trade receivables, marketable securities, and supply of wafers for our products.

Customer concentration risk may impact revenue. The percentage of total revenue, with end customers known, attributable to our top five end customers and largest end customer is presented in the following table:

Three Months Ended

Finded

Months Ended

June 300,19 1, June 300,19 1, 2018 2017

Revenue attributable to top five end customers

Revenue attributable to largest end customer

Six Months Ended

June 300,19 1, June 300,19 1, 2018 2017

2018 2017 2018 2017

17% 27% 17% 32%

Revenue attributable to largest end customer

Six Months Ended

June 300,19 1, June 300,19 1, 2018 2017

Revenue attributable to largest end customer 5%9%5%10%No other end customer accounted for more than 10% of total revenue during these periods. We did not have enough

information to assign end customers to approximately \$4.1 million and \$12.3 million of revenue recognized for the second quarter and first six months, respectively, of fiscal 2018 on shipments to distributors that have not sold through to end customers.

Distributors have historically accounted for a significant portion of our total revenue. Revenue attributable to distributors as a percentage of total revenue is presented in the following table:

Three Months Ended
Six Months Ended
June 30,1y 1, June 30,1y 1, 2018 2017

Revenue attributable to distributors* 86% 76 % 87% 73 %

Our two largest distributor groups, Arrow Electronics, Inc. ("Arrow") and the Weikeng Group ("Weikeng"), also account for a substantial portion of our net trade receivables. At June 30, 2018 and December 30, 2017, Arrow accounted for 73% and 66%, respectively, and Weikeng accounted for 13% and 0%, respectively, of net trade receivables. No other distributor group or end customer accounted for more than 10% of net trade receivables at these dates.

Concentration of credit risk with respect to trade receivables is mitigated by our credit and collection process, including active management of collections, credit limits, routine credit evaluations for essentially all customers, and secure transactions with letters of credit or advance payments where appropriate. We regularly review our allowance for doubtful accounts and the aging of our accounts receivable.

Accounts receivable do not bear interest and are shown net of allowances for doubtful accounts of \$9.4 million at both June 30, 2018 and December 30, 2017. The allowance for doubtful accounts reflects our best estimate of probable losses inherent in the accounts receivable balance. We determine the allowance based on assessment of known troubled accounts, analysis of the aging of our accounts receivable, historical experience, management judgment, and other currently available evidence. We write off accounts receivable against the allowance when we determine a balance is uncollectible and no longer actively pursue collection of the receivable. The amounts of accounts receivable written off were insignificant for all periods presented, and bad debt expense was negligible for all periods presented.

^{*}During the first quarter of 2018, we updated our channel categories to group all forms of distribution into a single channel. Prior periods have been reclassified to match the current period presentation.

We place our investments primarily through one financial institution and mitigate the concentration of credit risk by limiting the maximum portion of the investment portfolio which may be invested in any one instrument. Our investment policy defines approved credit ratings for investment securities. Investments on-hand in marketable securities consisted primarily of money market instruments, "AA" or better corporate notes and bonds and commercial paper, and U.S. government agency obligations. See "Note 4 - Marketable Securities" for a discussion of the liquidity attributes of our marketable securities.

We rely on a limited number of foundries for our wafer purchases, including Fujitsu Limited, Seiko Epson Corporation, Taiwan Semiconductor Manufacturing Company, Ltd, and United Microelectronics Corporation. We seek to mitigate the concentration of supply risk by establishing, maintaining and managing multiple foundry relationships; however, certain of our products are sourced from a single foundry and changing from one foundry to another can have a significant cost, among other factors.

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Property and Equipment

Property and equipment are stated at cost. Depreciation and amortization are computed using the straight-line method for financial reporting purposes over the estimated useful lives of the related assets, generally three to five years for equipment and software, one to three years for tooling, and thirty years for buildings and building space. Leasehold improvements are amortized over the shorter of the non-cancelable lease term or the estimated useful life of the assets. Upon disposal of property and equipment, the accounts are relieved of the costs and related accumulated depreciation and amortization, and resulting gains or losses are reflected in the Consolidated Statements of Operations for recognized gains and losses or in the Consolidated Balance Sheets for deferred gains and losses. Repair and maintenance costs are expensed as incurred.

Variable Interest Entities and Equity Investments in Privately Held Companies

We have an interest in an entity that is a Variable Interest Entity ("VIE"). 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 VIE requires significant assumptions and judgments. We have concluded that we are not the primary beneficiary of this VIE as we do not have the power to direct the activities that most significantly impact the VIE's economic performance.

Our equity investments in privately held companies, considered VIE's, that we are not required to consolidate are accounted for under the cost method, as assessed under ASC 325-20, "Cost Method Investments." These investments are reviewed on a quarterly basis to determine if their values have been impaired and adjustments are recorded as necessary. We assess the potential impairment of these investments by applying a fair value analysis using a revenue multiple approach. Declines in value that are judged to be other-than-temporary are reported in Other (expense) income, net in the accompanying Consolidated Statements of Operations with a commensurate decrease in the carrying value of the investment (see "Note 9 - Cost Method Investment and Collaborative Arrangement"). Upon disposition of these investments, the specific identification method is used to determine the cost basis in computing realized gains or losses.

Goodwill

Goodwill represents the excess of the purchase price over the fair value of the underlying net tangible and intangible assets. Goodwill is not amortized, but instead is tested for impairment annually or more frequently if certain indicators of impairment are present. We do not expect goodwill impairment to be tax deductible for income tax purposes.

In the second quarter of 2018, we made the strategic decision to discontinue our millimeter wave business. We determined that this action constituted a triggering event related to goodwill, and we evaluated our goodwill balance as of June 30, 2018. We concluded that goodwill was not impaired, and no impairment charges relating to goodwill were recorded for the first six months of fiscal 2018. See Notes 6, 7, 8 and 13 regarding charges and costs related to the discontinuation of our millimeter wave business. No impairment charges relating to goodwill were recorded for the first six months of fiscal 2017 as no indicators of impairment were present.

During the second quarter and first six months of fiscal 2018, there have been no changes to the Goodwill balance of \$267.5 million presented in our Annual Report on Form 10-K for the fiscal year ended December 30, 2017.

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New Accounting Pronouncements

Recently Issued Accounting Standards

In February 2016, the FASB issued ASU 2016-02, Leases (Topic 842), which requires the recognition of assets and liabilities arising from lease transactions on the balance sheet and will also require significant additional disclosures about the amount, timing, and uncertainty of cash flows from leases. Substantially all leases, including current operating leases, will be recognized by lessees on their balance sheet as a lease asset for its right to use the underlying asset and a lease liability for the corresponding lease obligation. For public business entities, the standard is effective for fiscal years beginning after December 15, 2018, including interim periods within those fiscal years. Early application is permitted for all entities. ASU 2016-02 initially required entities to adopt the standard using a modified retrospective transition method. In July 2018, the FASB issued certain updates including ASU 2018-11, Leases (Topic 842) Targeted Improvements, which provide transition practical expedients allowing companies to adopt the new standard with a cumulative effect adjustment as of the beginning of the year of adoption with prior year comparative financial information and disclosures remaining as previously reported. We are currently evaluating the optional transition practical expedients, as well as the impact of the new guidance on our consolidated financial statements and related disclosures, including the increase in the assets and liabilities on our balance sheet, and the impact on our current lease portfolio from both a lessor and lessee perspective. To facilitate this, we are utilizing a comprehensive approach to review our lease portfolio, as well as assessing system requirements and control implications. We believe that we have sufficient time and resources to complete our implementation efforts no later than the first quarter of fiscal 2019.

In August 2017, the FASB issued ASU 2017-12, Derivatives and Hedging (Topic 815): Targeted Improvements to Accounting for Hedging Activities, which improves the financial reporting of hedging relationships to better portray the economic results of an entity's risk management activities in its financial statements and simplifies the application of the hedge accounting guidance. This standard is effective for annual periods beginning after December 15, 2018, including interim periods within those annual periods, with early adoption permitted. We are currently evaluating the impact of ASU 2017-12 on our consolidated financial statements and related disclosures.

In February 2018, the FASB issued ASU 2018-02, Income Statement-Reporting Comprehensive Income (Topic 220): Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income. The new guidance allows an entity to reclassify the income tax effects of the Public Law 115-97 "An Act to Provide Reconciliation Pursuant to Titles II and V of the Concurrent Resolution on the Budget for Fiscal Year 2018", commonly known as the Tax Cuts and Job Act of 2017 (the "2017 Tax Act") on items within accumulated other comprehensive income/(loss) to retained earnings. This new guidance is effective for fiscal years beginning after December 15, 2018, with early adoption permitted. The new standard must be adopted retrospectively to each period in which a taxpayer recognizes the effect of the change in the U.S. federal corporate income tax rate from the 2017 Tax Act. We are currently assessing the impact of ASU 2018-02 on our consolidated financial statements and related disclosures.

In June 2018, the FASB issued ASU No. 2018-07, Compensation-Stock Compensation (Topic 718): Improvements to Nonemployee Share-Based Payment Accounting, which largely aligns the measurement and classification guidance for share-based payments to nonemployees with the guidance for share-based payments to employees. The ASU also clarifies that any share-based payment issued to a customer should be evaluated under ASC 606, Revenue from Contracts with Customers. The ASU requires a modified retrospective transition approach. This new guidance is effective for fiscal years beginning after December 15, 2018, including interim periods within that fiscal year. We do not expect the adoption of this accounting standard update to have a material impact on our consolidated financial statements.

Note 2 - Revenue from Contracts with Customers

We adopted ASC 606 effective on December 31, 2017, the first day of our 2018 fiscal year, using the modified retrospective method. Under the guidance in effect prior to the adoption of ASC 606, we deferred the recognition of revenue and the cost of revenue from certain sales until the distributors of our products reported that they had sold the products to their customers (known as "sell-through" revenue recognition). Under ASC 606, we recognize revenue on sales to all distributors upon shipment and transfer of control. Under ASC 606, we will also recognize certain licensing revenues that were not recognizable under previous GAAP due to the fixed and determinable revenue recognition criteria not being met. As a result of this adoption, we revised our accounting policy for revenue recognition as detailed below.

We recognize revenue under the core principle of depicting the transfer of control to our customers in an amount reflecting the consideration we expect to be entitled. In order to achieve that core principle, we apply the following five step approach, as further described below: (1) identify the contract with a customer, (2) identify the performance obligations in the contract, (3) determine the transaction price, (4) allocate the transaction price to each performance obligation in the contract, and (5) recognize revenue when applicable performance obligations are satisfied.

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Product Revenue

Identify the contract with a customer - Our product revenues consist of sales to original equipment manufacturers, or OEMs, and distributors. We consider customer purchase orders, which in some cases are governed by master sales agreements, to be the contracts with a customer. In certain cases we consider firm forecasts that are agreed to by both us and the customer to be contracts. For sales to distributors, we have concluded that our contracts are with the distributor, rather than with the distributor's end customer, as we hold a contract bearing enforceable rights and obligations only with the distributor. As part of our consideration of the contract, we evaluate certain factors including the customer's ability to pay (or credit risk).

Identify the performance obligations in the contract - For each contract, we consider our promise to transfer each distinct product to be the identified performance obligations.

Determine the transaction price - In determining the transaction price, we evaluate whether the set contract price is subject to refund or adjustment to determine the net consideration to which we expect to be entitled. As our standard payment terms are less than one year, we have elected to apply the practical expedient to not assess whether a contract has a significant financing component.

Sales to most distributors are made under terms allowing certain price adjustments and limited rights of return of our products held in their inventory or upon sale to their end customers. Revenue from sales to distributors is recognized upon the transfer of control to the distributor, which generally occurs upon shipment of product to the distributor. Frequently, distributors need to sell at a price lower than the standard distribution price in order to win business. At the time the distributor invoices its customer or soon thereafter, the distributor submits a "ship and debit" price adjustment claim to us to adjust the distributor's cost from the standard price to the pre-approved lower price. After we verify that the claim was pre-approved, a credit memo is issued to the distributor for the ship and debit claim. In determining the transaction price, we consider ship and debit price adjustments to be variable consideration. Such price adjustments are estimated using the expected value method based on an analysis of historical ship and debit claims, at the distributor and product level, over a period of time considered adequate to account for current pricing and business trends. Any differences between the estimated consideration and the actual amount received from the customer is recorded in the period that the actual consideration becomes known. Most of our distributors are entitled to limited rights of return, referred to as stock rotation, not to exceed 5% of billings, net of returns and ship and debit price adjustments. Stock rotation reserves are based on historical return rates and recorded as a reduction to revenue with a corresponding reduction to cost of goods sold for the estimated cost of inventory that is expected to be returned.

Sales to OEMs and certain distributors are made under terms that do not include rights of return or price concessions after we ship the product. Accordingly, the transaction price equals the invoice price and there is no variable consideration.

Allocate the transaction price to each performance obligation in the contract - Because our product revenue contracts generally include the delivery of a certain quantity of semiconductors as the single performance obligation, we do not need to allocate revenue across distinct performance obligations. However, we frequently receive orders for products to be delivered over multiple dates that may extend across several reporting periods. We invoice for each delivery upon shipment and recognize revenues for each distinct product delivered, assuming transfer of control has occurred. Payment term for invoices are generally 30 to 60 days.

Recognize revenue when applicable performance obligations are satisfied - Revenue is recognized when control of the product is transferred to the customer (i.e., when our performance obligation is satisfied), which typically occurs at shipment. In determining whether control has transferred, we also consider if there is a present right to payment and legal title, along with whether the risks and rewards of ownership have transferred to the customer. We have certain

vendor-managed inventory arrangements with certain OEM customers whereby we ship product into an inventory hub location but for which control does not transfer until the customer consumes the inventory. In such cases revenue is recognized upon customer consumption.

Licensing and Services Revenue

Identify the contract with a customer - Our licensing and services revenue is comprised of revenue from our intellectual property ("IP") core licensing activity, patent monetization activities, and royalty and adopter fee revenue from our standards activities. These activities are complementary to our product sales and help us monetize our IP and accelerate marketing adoption curves associated with our technology and standards. We consider licensing arrangements with our customers to be the contract.

Identify the performance obligations in the contract - For each contract, we consider the promise to deliver a license that grants the customer the right to use the IP as well as any professional services provided under the contract, as distinct performance obligations.

Determine the transaction price - Our HDMI and MHL standards revenue, as well as certain IP licenses, include variable consideration in the form of usage-based royalties. We apply the provisions of ASC 606 in accounting for these types of arrangements, whereby we do not include estimated royalties in the transaction price at the origination of the contract but rather recognize royalty revenue as usage occurs.

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HDMI royalty revenue is determined by a contractual allocation formula agreed to by the Founders of the HDMI consortium. The contractual allocation formula is subject to periodic adjustment, generally every three years. The most recent royalty sharing formula covered the period from January 1, 2014 through December 31, 2016, and an interim agreement covering the period from January 1, 2017 through December 31, 2017 was signed in the second quarter of fiscal 2018. However, a new agreement covering the period beginning January 1, 2018 is yet to be signed. While a new royalty sharing agreement is being negotiated with the other Founders of the HDMI consortium, the HDMI agent is unable to distribute the majority of the royalties collected to the Founders. We are recording revenue based on our estimated share of the royalties. This estimate will be adjusted once the Founders finalize the agreement.

Allocate the transaction price to each performance obligation in the contract - For contracts that include multiple performance obligations (most commonly those that include licenses and professional services), we allocate revenue to each performance obligation based on the best estimate of the standalone selling price of each obligation. The judgments regarding the allocation of revenue on licensing arrangements are not material to our financial statements.

Recognize revenue when applicable performance obligations are satisfied - We recognize license revenue at the point in time that control of the license transfers to the customer, which is generally upon delivery. We recognize professional service revenue as we perform the services. Royalty revenues are recognized as customers sell products that include our IP and are legally obligated to remit royalties to us. We receive payments from customers based on contractual billing schedules. Accounts receivable are recorded when the right to consideration becomes unconditional. Payment terms on invoiced amounts are typically 30 days.

Impact on Financial Statements

We adopted ASC 606 on December 31, 2017 using the modified retrospective method. Under this transition method, we applied the provisions of the new standard to all open customer contracts as of the date of adoption and recorded the cumulative effect of adoption to Accumulated Deficit on December 31, 2017. We have not restated any prior financial statements presented. ASC 606 requires us to disclose the effect of adoption on each financial statement line item in the current reporting period during 2018 as compared to the guidance that was in effect in 2017, and an explanation of the reasons for significant changes. Such information is as follows:

Condensed Consolidated Statement of Operations

	Three months ended June 30, 2018			Six month	e 30, 2018		
			Pro			Pro	
	As		forma as	As		forma as	
	reported		if	reported		if	
(In thousands, except per share data)	under	Adjustments	previous	under	Adjustments	previous	
	new		standard	new		standard	
	standard		was in	standard		was in	
			effect			effect	
Product revenue	98,294	(4,084)	94,210	193,403	(12,349)	181,054	
Licensing and services revenue	4,421	4,399	8,820	7,935	3,187	11,122	
Cost of product revenue	52,208	(1,725)	50,483	94,310	(5,544)	88,766	
Net (loss) income	(20,223)	2,040	(18,183)	(26,175)	(3,618)	(29,793)	
Net (loss) income per share, basic and diluted	(0.16)	0.01	(0.15)	(0.21)	(0.03)	(0.24)	

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Condensed Consolidated Balance Sheets

	As of Jun	e 30, 2018		
(In thousands)	As reported under new standard	Adjustme		Pro forma as if previous standard was in effect
Accounts receivable, net of allowance for doubtful accounts Inventories	76,566 65,586	9,561 (615)	86,127 64,971
Prepaid expenses and other current assets Total assets	21,729 623,204	(4,472 4,474	,	17,257 627,678
Accounts payable and accrued expenses (includes restructuring) Deferred income and allowances on sales to distributors	53,500	(28 35,521		53,472 35,521
Accumulated deficit Total liabilities and stockholders' equity	(476,636) 623,204	4,474		(507,655) 627,678
Condensed Consolidated Statement of Cash Flows				
Condensed Consolidated Statement of Cash Flows	Six month	ns ended Ju		30, 2018 Pro
	As reported		F f	Pro Forma as f
Condensed Consolidated Statement of Cash Flows (In thousands)	As reported	ns ended Ju Adjustmen	f ints p s	Pro Forma as f
	As reported under new		f ints p s	Pro forma as forevious standard was in
(In thousands)	As reported under new	Adjustmen	f ints p s v e	Pro forma as forevious standard was in
(In thousands) Cash flows from operating activities: Net loss Accounts receivable, net	As reported under new standard (26,175) (19,654)	Adjustmen (3,618 (11,369	f f ints p s v e	Pro forma as f previous standard was in effect (29,793) (31,023)
(In thousands) Cash flows from operating activities: Net loss Accounts receivable, net Inventories	As reported under new standard (26,175) (19,654) 14,687	Adjustmen (3,618 (11,369 245	F f in its p s v e e	Pro forma as f previous standard was in effect (29,793) (31,023) (4,932)
(In thousands) Cash flows from operating activities: Net loss Accounts receivable, net Inventories Prepaid expenses and other assets	As reported under new standard (26,175) (19,654) 14,687 (7,891)	Adjustmen (3,618 (11,369 245 (3,043	F f f in its p s v e e e e e e e e e e e e e e e e e e	Pro forma as f previous standard was in effect 29,793) 31,023) 14,932 10,934)
(In thousands) Cash flows from operating activities: Net loss Accounts receivable, net Inventories	As reported under new standard (26,175) (19,654) 14,687 (7,891) 7,095	Adjustmen (3,618 (11,369 245	F f f i i i i i i i i i i i i i i i i i	Pro forma as f previous standard was in effect (29,793) (31,023) (4,932)

The significant impacts of the new standard were to accelerate the recognition of revenues on both sales to certain distributors and certain licensing activities. As a result of adopting this standard, we recorded a cumulative effect adjustment of \$27.4 million as a reduction to Accumulated deficit on December 31, 2017, resulting primarily from \$20.2 million of previously deferred distributor revenues and costs and \$6.6 million of previously unrecognized licensing revenues.

Other matters

We generally provide an assurance warranty that our products will substantially conform to the published specifications for twelve months from the date of shipment. In some case the warranty period may be longer than twelve months. We do not separately price or sell the assurance warranty. Our liability is limited to either a credit equal to the purchase price or replacement of the defective part. Returns under warranty have historically been immaterial. As such, we do not record a specific warranty reserve or consider activities related to such warranty, if any, to be a separate performance obligation.

Under the practical expedient provided by ASC 340, we generally expense sales commissions when incurred because the amortization period would have been less than one year. We record these costs within selling, general and administrative expenses.

Substantially all of our performance obligations are satisfied within twelve months. Accordingly, under the optional exemption provided by ASC 606, we do not disclose revenues allocated to future performance obligations of partially completed contracts.

We do not have any material contract liabilities recorded as of June 30, 2018.

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Contract assets relate to our rights to consideration for licenses and royalties due to us as a member of the HDMI consortium, with collection dependent on events other than the passage of time, such as collection of licenses and royalties from customers by the HDMI licensing agent and the finalization of a new royalty sharing agreement. The contract assets are recorded in Prepaid expenses and other current assets in our Consolidated Balance Sheets, and they are transferred to Accounts receivable when the rights become unconditional. As a result of the signing of the HDMI Founders royalty sharing agreement for 2017, we received \$6.4 million in cash during the second quarter of fiscal 2018 for fiscal 2017 HDMI royalties. Collection of this amount had no impact on our reported revenues and was recorded as a reduction to the contract asset.

The following table summarizes the activity for our contract assets during the first six months of fiscal 2018: (In thousands)

Balance as of December 31, 2017	\$7,515
Revenues recorded during the period	4,711
Transferred to accounts receivable or collected	(7,754)
Balance as of June 30, 2018	\$4,472

Disaggregation of revenue

The following tables provide information about revenue from contracts with customers disaggregated by major class of revenue and by geographical market, based on ship-to location of the end customer, where available, and ship-to location of distributor otherwise:

Major Class of Revenue	Three M	lonths	Six Months		
Major Class of Revenue	Ended		Ended		
(In thousands)	June 30,	July 1,	June 30,	July 1,	
(In thousands)	2018	2017 *	2018	2017 *	
Product revenue - Distributors	88,790	71,570	174,747	145,650	
Product revenue - Direct	9,504	11,598	18,656	30,187	
Licensing and services revenue	4,421	10,969	7,935	22,887	
Total revenue	102,715	94,137	201,338	198,724	
Davience has Casamanhical Madaet	Three M	lonths	Six Mon	ths	
Revenue by Geographical Market	Three M Ended	lonths	Six Mon Ended	ths	
, , ,	Ended				
Revenue by Geographical Market (In thousands)	Ended		Ended June 30,		
, , ,	Ended June 30, 2018	July 1, 2017 *	Ended June 30,	July 1, 2017 *	
(In thousands)	Ended June 30, 2018 77,899	July 1, 2017 * 64,946	Ended June 30, 2018	July 1, 2017 * 138,404	
(In thousands) Asia	Ended June 30, 2018 77,899	July 1, 2017 * 64,946 10,579	Ended June 30, 2018 149,820	July 1, 2017 * 138,404 21,659	

As noted above, prior period amounts have not been adjusted under *the modified retrospective method of adopting ASC 606 and, therefore, are presented under GAAP in effect during that period.

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Note 3 - Net Loss per Share

We compute basic net loss per share by dividing net loss by the weighted average number of common shares outstanding during the period. To determine diluted share count, we apply the treasury stock method to determine the dilutive effect of outstanding stock option shares, restricted stock units ("RSUs"), and Employee Stock Purchase Plan ("ESPP") shares. Our application of the treasury stock method includes, as assumed proceeds, the average unamortized stock-based compensation expense for the period. When we are in a net loss position, we do not include dilutive securities as their inclusion would reduce the net loss per share.

A summary of basic and diluted net loss per share is presented in the following table:

	Three Mon	nths Ended	Six Month	s Ended	
(in thousands, avant per share data)	June 30,	July 1,	June 30,	July 1,	
(in thousands, except per share data)	2018	2017	2018	2017	
Net loss	\$(20,223)	\$(13,022)	\$(26,175)	\$(20,297)	
Shares used in basic and diluted net loss per share	124,843	122,390	124,460	122,095	
Basic and diluted net loss per share	\$(0.16)	\$(0.11)	\$(0.21)	\$(0.17)	

The computation of diluted net loss per share excludes the effects of stock options, RSUs, and ESPP shares that are antidilutive, aggregating approximately the following number of shares:

> Three Six Months Months Ended Ended June 30 uly 1, June 30 uly 1, 2018 2017 2018 2017

Stock options, RSUs, and ESPP shares excluded as they are antidilutive 9,169 6,000 9,376 5,946

Stock options, RSUs, and ESPP shares are considered antidilutive when the aggregate of exercise price and unrecognized stock-based compensation expense are greater than the average market price for our common stock during the period or when the Company is in a net loss position, as the effects would reduce the loss per share. Stock options, RSUs, and ESPP shares that are antidilutive at June 30, 2018 could become dilutive in the future.

Note 4 - Marketable Securities

(in thousands)

We classify our marketable securities as short-term based on their nature and availability for use in current operations. In the periods presented, our Short-term marketable securities consisted of government bonds with contractual maturities of up to two years. The following table summarizes the remaining maturities of our Short-term marketable securities at fair value:

June 30, December 30, (In thousands) 2018 2017 Short-term marketable securities:

Maturing within one year \$4,990 \$ 4,982 Maturing between one and two years 7,096 Total marketable securities \$12,086 \$ 4,982

Note 5 - Fair Value of Financial Instruments

Fair value measurements as Fair value measurements as of

	June 30,	2018			Decemb	per 30, 2	017		
(In thousands)	Total	Level 1	Level	Leve	Total	Level	Level	Lev	el
(III tilousalius)	Total	Level I	2	3	Total	1	2	3	
Short-term marketable securities	\$12,086	\$12,086	\$ —	\$ -	-\$4,982	\$4,982	\$ —	\$	_
Foreign currency forward exchange contracts, net	36	_	36	—	77		77	—	
Total fair value of financial instruments	\$12,122	\$12,086	\$ 36	\$ -	\$5,059	\$4,982	\$ 77	\$	_

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We invest in various financial instruments that may include corporate and government bonds and notes, commercial paper, and certificates of deposit. In addition, we enter into foreign currency forward exchange contracts to mitigate our foreign currency exchange rate exposure. We carry these instruments at their fair value in accordance with ASC 820, "Fair Value Measurements." The framework under the provisions of ASC 820 establishes three levels of inputs that may be used to measure fair value. Each level of input has different levels of subjectivity and difficulty involved in determining fair value, as summarized in "Note 1 - Basis of Presentation and Significant Accounting Policies." There were no transfers between any of the levels during the first six months of fiscal 2018 or 2017.

In accordance with ASC 320, "Investments-Debt and Equity Securities," we recorded an unrealized gain of less than \$0.1 million during the six months ended June 30, 2018 and an unrealized loss of approximately \$0.1 million during the six months ended July 1, 2017 on certain Short-term marketable securities (Level 1 instruments), which have been recorded in Accumulated other comprehensive loss. Future fluctuations in fair value related to these instruments that we deem to be temporary, including any recoveries of previous write-downs, would be recorded to Accumulated other comprehensive loss. If we were to determine in the future that any further decline in fair value is other-than-temporary, we would record an impairment charge, which could have a material adverse effect on our operating results. If we were to liquidate our position in these securities, it is likely that the amount of any future realized gain or loss would be different from the unrealized gain or loss reported in Accumulated other comprehensive loss.

Note 6 - Discontinuation of Business Unit

In the second quarter of 2018, we made the strategic decision to discontinue our millimeter wave business, which included certain assets related to our Wireless products, and our Board of Directors approved a related internal restructuring plan. This action is designed to improve profitability, reduce our infrastructure costs, and refocus on our core business activities. Approximately \$24.3 million of total expense has been recorded in our Consolidated Statements of Operations through June 30, 2018, including \$11.9 million charged to Impairment of acquired intangible assets, \$8.3 million charged to Cost of product revenue for inventory reserves, and \$4.1 million charged to Restructuring charges for severance and other personnel costs, and for other asset restructuring. Notes 7, 8 and 13 provide further details on these charges and costs, all of which are summarized above.

Note 7 - Inventories

(In thousands) June 30, December 30, 2018 2017

Work in progress \$44,387 \$ 49,642

Finished goods 21,199 30,261

Total inventories \$65,586 \$ 79,903

In the second quarter of 2018, we made the strategic decision to discontinue our millimeter wave business, which included certain wireless technology inventory items. As such, specific inventory reserves of \$8.3 million were taken on product lines that are being eliminated with the discontinuation of our millimeter wave business and were charged to Cost of product revenue in the Consolidated Statements of Operations.

Note 8 - Intangible Assets

In connection with our acquisitions of Silicon Image, Inc. in March 2015 and SiliconBlue Technologies, Inc. in December 2011, we recorded identifiable intangible assets related to developed technology, customer relationships,

licensed technology, patents, and in-process research and development based on guidance for determining fair value under the provisions of ASC 820, "Fair Value Measurements." Additionally, during fiscal 2015, we licensed additional third-party technology.

We monitor the carrying value of our intangible assets for potential impairment and test the recoverability of such assets whenever triggering events or changes in circumstances indicate that their carrying amounts may not be recoverable. When we are required to determine the fair value of intangible assets other than goodwill, we use the income approach. We start with a forecast of all expected net cash flows associated with the asset and then apply a discount rate to arrive at fair value.

In the second quarter of 2018, we made the strategic decision to discontinue our millimeter wave business, which included certain wireless technology intangible assets. We determined that this action constituted an impairment indicator related to certain of the developed technology intangible assets acquired in our acquisition of Silicon Image. Our assessment of the fair value of these intangible assets concluded that they had been fully impaired as of June 30, 2018, and we recorded an impairment charge of \$11.9 million in the Consolidated Statements of Operations. No impairment charges related to intangible assets were recorded for the first six months of fiscal 2017 as no indicators of impairment were present.

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In the first quarter of fiscal 2017, we sold a portfolio of patents that had been acquired in our acquisition of Silicon Image for \$18.0 million. This amount was received in two installments over the first and second quarters of fiscal 2017, and was recognized as licensing and services revenue in our Consolidated Statements of Operations during the respective periods in which the installment payments were received. As a result of this transaction, Intangible assets, net was reduced by approximately \$3.5 million on our Consolidated Balance Sheets.

On our Consolidated Balance Sheets at June 30, 2018 and December 30, 2017, Intangible assets, net are shown net of accumulated amortization of \$110.7 million and \$100.3 million, respectively.

We recorded amortization expense related to intangible assets on the Consolidated Statements of Operations as presented in the following table:

	Three Months Ended		Six Months		
			Ended		
(In thousands)	June 30,July 1,		June 30, July 1,		
	2018	2017	2018	2017	
Research and development	\$123	\$141	\$250	\$314	
Amortization of acquired intangible assets	4,523	8,737	10,159	17,251	
	\$4,646	\$8,878	\$10,409	\$17,565	

Note 9 - Cost Method Investment and Collaborative Arrangement

During fiscal 2015, we purchased a series of preferred stock ownership interests in a privately-held company that designs human-computer interaction technology for total consideration of \$5.0 million. This gross investment constituted a 22.7% ownership interest. In the third quarter of fiscal 2016, we made an additional investment of \$1.0 million via a convertible debt instrument, bringing our gross investment in the investee to \$6.0 million.

In 2017, we signed new development and licensing contracts with the investee, and the investee incurred preferred debt that effectively subordinates our ownership position between their debt and common shareholders. After evaluating these events and our investment position, we concluded that we have a variable interest in the privately-held company. However, we are not the primary beneficiary of the investee, are not holding in-substance common stock, and do not have a significant amount of influence to direct the activities that most significantly impact the investee's economic performance. Accordingly, we account for our investment in this company under the cost method.

Through June 30, 2018, we have reduced the value of our investment by approximately \$3.7 million. The net balance of our investment included in Other long-term assets in the Consolidated Balance Sheets is approximately \$2.3 million.

At June 30, 2018, our maximum exposure to loss as a result of involvement with this VIE totals \$4.7 million, which is comprised of the \$2.3 million carrying value of our investment plus \$2.4 million of prepaid royalties further described in the section below on the related collaborative arrangement.

We assessed this investment for impairment as of June 30, 2018 by applying a fair value analysis using a revenue multiple approach and concluded that no impairment adjustment was necessary during the second quarter of fiscal 2018. For the second quarter and first six months of fiscal 2017, approximately \$0.2 million and \$0.5 million, respectively, of impairment of a cost method investment is included in Other (expense) income, net on our Consolidated Statements of Operations.

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Collaborative Arrangement

Concurrent with the initiation of the investment discussed above, we entered into a collaborative arrangement with the investee during fiscal 2015. Under this arrangement, the parties undertook the development of certain fast, multi-touch sensing devices for touch screen controller applications. The new development and licensing agreements we entered into in 2017 specified the transfer of certain Intellectual Property ("IP") from the investee to us, payment of royalties from us to the investee and from investee to us for future sales of co-developed products, as well as an agreement to perform certain services for each other at no charge. We will also make quarterly payments to the investee. These will be automatically credited against any future revenue share amount owed to investee and will be accounted for as prepaid royalties under ASC 340. In both the first and second quarters of fiscal 2018, we made quarterly payments of \$0.9 million. As of June 30, 2018, expected future royalty prepayments are as follows:

Fiscal year (in thousands)

2018 (remaining 6 months) \$ 1,750 2019 \$ 5,000

At June 30, 2018, royalties prepaid to the investee total \$2.4 million. Of this amount, approximately \$0.4 million is included in Prepaid expenses and other current assets, and approximately \$2.0 million is included in Other long-term assets in our Consolidated Balance Sheets. We have not recorded a liability related to the future payments, as the agreement is cancelable.

Note 10 - Accounts Payable and Accrued Expenses

Included in Accounts payable and accrued expenses are the following balances:

(In thousands)	June 30,	December 30,
	2018	2017
Trade accounts payable	\$30,407	\$ 35,350
Liability for non-cancelable contracts	7,926	7,232
Restructuring	4,778	2,447
Deferred rent	3,832	3,834
Other accrued expenses	6,557	5,542
Total accounts payable and accrued expenses	\$53,500	\$ 54,405

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Note 11 - Changes in Stockholders' Equity and Accumulated Other Comprehensive Loss

(In thousands)	Common	Additional Paid-in capital	Accumulated deficit	other comprehensiloss		Total	
Balances, December 30, 2017	\$ 1,239	\$695,768	\$ (477,862)	\$ (1,452)	\$217,693	
Net loss for the six months ended June 30, 2018	_	_	(26,175)	_		(26,175)
Unrealized gain related to marketable securities, net of tax	_	_	_	2		2	
Recognized loss on redemption of marketable securities, previously unrealized	_	_	_	(1)	(1)
Translation adjustments, net of tax	_	_	_	(540)	(540)
Common stock issued in connection with the exercise of stock options, ESPP and vested RSUs, net of tax	17	5,023	_	_		5,040	
Stock-based compensation related to stock options, ESPP and RSUs	_	7,200	_	_		7,200	
Accounting method transition adjustment (1)	_	_	27,401	_		27,401	
Balances, June 30, 2018	\$ 1,256	\$707,991	(476,636)	\$ (1,991)	\$230,620	ř

As of the beginning of fiscal 2018, we adopted ASC 606, Revenue from Contracts With Customers, using the (1)modified retrospective transition method. As a result of this adoption, we recorded a cumulative-effect adjustment to Accumulated Deficit, as shown in the table above.

Note 12 - Income Taxes

For the three months ended June 30, 2018 and July 1, 2017, we recorded an income tax expense of approximately \$1.3 million and less than \$0.1 million, respectively. For the six months ended June 30, 2018 and July 1, 2017, we recorded an income tax expense of approximately \$1.9 million and \$0.6 million, respectively. The income tax expenses for the three and six month periods ended June 30, 2018 and July 1, 2017 represent tax at the federal, state, and foreign statutory tax rates adjusted for withholding taxes, changes in uncertain tax positions, changes in the U.S. valuation allowance, as well as other non-deductible items in the United States and foreign jurisdictions. The difference between the U.S. federal statutory tax rate of 21% and our effective tax rate for the three and six months ended June 30, 2018 results from an increase in the valuation allowance that offsets expected tax benefit in the United States, foreign rate differential and withholding taxes, zero tax rate in Bermuda which results in no tax benefit for the pretax loss in Bermuda, and discrete benefit from the release of uncertain tax positions.

Through June 30, 2018, we continued to evaluate the valuation allowance position in the United States and concluded we should maintain a valuation allowance against the net federal and state deferred tax assets. We will continue to evaluate both positive and negative evidence in future periods to determine if more deferred tax assets should be recognized. We don't have a valuation allowance in any foreign jurisdictions as it has been concluded it is more likely than not that we will realize the net deferred tax assets in future periods.

We are subject to federal and state income tax as well as income tax in the various foreign jurisdictions in which we operate. Additionally, the years that remain subject to examination are 2014 for federal income taxes, 2013 for state income taxes, and 2011 for foreign income taxes, including years ending thereafter. However, to the extent allowed by law, the tax authorities may have the right to examine prior periods where net operating losses or tax credits were generated and carried forward, and make adjustments up to the amount of the net operating losses or credit carryforward amount. Our income tax returns are not under examination in any jurisdiction.

We believe that it is reasonably possible that \$1.5 million of unrecognized tax benefits and \$0.1 million of associated interest and penalties could be recognized during the next twelve months. The \$1.6 million potential change would represent a decrease in unrecognized tax benefits, comprised of items related to tax filings for years that will no longer be subject to examination under expiring statutes of limitations.

At December 30, 2017, we had U.S. federal net operating loss ("NOL") carryforwards (pretax) of approximately \$351.4 million that expire at various dates between 2018 and 2037. We had state NOL carryforwards (pretax) of approximately \$162.9 million that expire at various dates from 2018 through 2037. We also had federal and state credit carryforwards of \$50.2 million and \$59.2 million, respectively. Of the total \$59.2 million state credit carryforwards, \$57.9 million do not expire. The remaining credits expire at various dates from 2018 through 2037.

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Our liability for uncertain tax positions (including penalties and interest) was \$26.6 million and \$26.9 million at June 30, 2018 and December 30, 2017, respectively, and is recorded as a component of Other long-term liabilities on our Consolidated Balance Sheets. The remainder of our uncertain tax position exposure of \$24.5 million is netted against deferred tax assets.

The Tax Cuts and Jobs Act (the "2017 Tax Act"), enacted December 22, 2017, contains provisions that affect us, but the impact will be absorbed by utilizing NOL carryforwards. Reduction of the corporate tax rate from 35% to 21% reduced the value of our domestic deferred tax assets and reduced our associated full valuation allowance on those assets, resulting in no net impact on our Consolidated Statements of Operation.

U.S. tax reform required a deemed repatriation of deferred foreign earnings as of December 30, 2017 and no future U.S. taxes should be due on these earnings because of enactment of a 100% dividends received deduction. At December 30, 2017, we had no impact from this transition tax due to utilization of NOL carryforwards. Foreign earnings may be subject to withholding taxes if they are distributed and repatriated in the United States.

In March 2018, the FASB issued ASU 2018-05, Income Taxes (Topic 740): Amendments to SEC Paragraphs Pursuant to SEC Staff Accounting Bulletin No. 118 ("SAB 118"). The SEC issued SAB 118 on December 22, 2017 to address the situation where an SEC reporting company did not have all the necessary information available or analyzed to complete their accounting for the income tax effects of the 2017 Tax Act in the period of enactment. Due to the lack of authoritative guidance issued, complexity, and enactment timing of the 2017 Tax Act, we made a reasonable estimate of the income tax effect of the deemed repatriation of deferred foreign earnings. We may refine this as additional guidance, clarification, and analysis is available. Any changes to our estimate will be reflected in continuing operations in the period the amounts are determined and within the "measurement period" not-to-exceed one year allowed under SAB 118. As of June 30, 2018, we have not completed our accounting for the tax effect of the 2017 Tax Act, and we have made no change to the provisional amounts recorded at December 30, 2017.

We are not currently paying U.S. federal income taxes and do not expect to pay such taxes until we fully utilize our tax NOL and credit carryforwards. We expect to pay a nominal amount of state income tax. We are paying foreign income and withholding taxes, which are reflected in Income tax expense in our Consolidated Statements of Operations and are primarily related to the cost of operating offshore activities and subsidiaries. We accrue interest and penalties related to uncertain tax positions in Income tax expense.

Note 13 - Restructuring

In June 2018, our Board of Directors approved an internal restructuring plan (the "June 2018 Plan"), which included the discontinuation of our millimeter wave business and the use of certain assets related to our Wireless products, and a workforce reduction. The June 2018 Plan is designed to reduce our infrastructure costs and refocus on our core business activities. Approximately \$4.1 million of restructuring expense has been incurred through June 30, 2018 under the June 2018 Plan, and we believe this amount approximates the total costs under the plan and that this plan is substantially complete.

In June 2017, our Board of Directors approved an internal restructuring plan (the "June 2017 Plan"), which included the sale of 100% of the equity of our Hyderabad, India subsidiary and certain assets related to our Simplay Labs testing and certification business, a worldwide workforce reduction, and an initiative to reduce our infrastructure costs. These actions are part of an overall plan to achieve financial targets and to enhance our financial and competitive position by better aligning our revenue and operating expenses. Under this plan, approximately \$0.3 million and \$2.4 million of expense was incurred during the three months ended June 30, 2018 and July 1, 2017,

respectively, and approximately \$1.3 million and \$2.4 million of expense was incurred during the six months ended June 30, 2018 and July 1, 2017, respectively. Approximately \$9.3 million of total expense has been incurred through June 30, 2018 under the June 2017 Plan. We expect the total cost to be approximately \$8.0 million to \$12.0 million and that it will be substantially completed by the end of the fourth quarter of fiscal 2018.

In September 2015, we implemented a reduction of our worldwide workforce (the "September 2015 Reduction") separate from the March 2015 Plan described below. The September 2015 Reduction was designed to resize the company in line with the market environment and to better balance our workforce with the long-term strategic needs of our business. The September 2015 Reduction is substantially complete subject to certain remaining expected costs that we do not expect to be material, which we will expense as incurred. Under this reduction, no expense and approximately \$0.5 million of credit was incurred during the three months ended June 30, 2018 and July 1, 2017, respectively, and no expense and approximately \$0.7 million of credit was incurred during the six months ended June 30, 2018 and July 1, 2017, respectively. Approximately \$7.2 million of total expense has been incurred through June 30, 2018 under the September 2015 Reduction, and we believe this amount approximates the total costs under the plan.

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In March 2015, our Board of Directors approved an internal restructuring plan (the "March 2015 Plan"), in connection with our acquisition of Silicon Image. The March 2015 Plan was designed to realize synergies from the acquisition by eliminating redundancies created as a result of combining the two companies. This included reductions in our worldwide workforce, consolidation of facilities, and cancellation of software contracts and engineering tools. The March 2015 Plan is substantially complete subject to certain remaining expected costs that we do not expect to be material and any changes in sublease assumptions should they occur, which we will expense as incurred. Under this plan, no expense and approximately \$0.4 million of credit was incurred during the three months ended June 30, 2018 and July 1, 2017, respectively, and no expense and approximately \$0.1 million of credit was incurred during the six months ended June 30, 2018 and July 1, 2017, respectively. Approximately \$20.5 million of total expense has been incurred through June 30, 2018 under the March 2015 Plan, and we believe this amount approximates the total costs under the plan.

Substantially all of the expenses recorded in the first quarter of fiscal 2018, and in the second quarter and first six months of fiscal 2017 were under the June 2017 Plan. Substantially all of the expenses in the second quarter of fiscal 2018 were under the June 2018 Plan. These expenses were recorded to Restructuring charges on our Consolidated Statements of Operations.

The restructuring accrual balance is presented in Accounts payable and accrued expenses (includes restructuring) on our Consolidated Balance Sheets. The following table displays the combined activity related to the restructuring actions described above:

(In thousands)	Severance & related *	Lease Termination & Fixed Assets	Software Contracts & Engineering Tools **	Other Total
Balance at December 31, 2016	\$ 801	\$ 1,036	\$ 25	\$12 \$1,874
Restructuring charges	1,276	57	—	309 1,642
Costs paid or otherwise settled	(52)	(616)	(25)	(301) (994)
Balance at July 1, 2017	\$ 2,025	\$ 477	\$ —	\$20 \$2,522
Balance at December 30, 2017	\$ 1,192	\$ 870	\$ 360	\$25 \$2,447
Restructuring charges	3,964	440	913	88 5,405
Costs paid or otherwise settled	(1,443)	(593)	(968)	(70) (3,074)
Balance at June 30, 2018	\$ 3,713	\$ 717	\$ 305	\$43 \$4,778

^{*} Includes employee relocation costs and retention bonuses

Note 14 - Long-Term Debt

On March 10, 2015, we entered into a secured credit agreement (the "Credit Agreement") with Jefferies Finance, LLC and certain other lenders for purposes of funding, in part, our acquisition of Silicon Image. The Credit Agreement provided for a \$350 million term loan (the "Term Loan") maturing on March 10, 2021 (the "Term Loan Maturity Date"). We received \$346.5 million net of an original issue discount of \$3.5 million and we paid debt issuance costs of \$8.3 million. The Term Loan bears variable interest equal to the one-month LIBOR, subject to a 1.00% floor, plus a spread of 4.25%. The current effective interest rate on the Term Loan is 6.92%.

The Term Loan is payable through a combination of (i) quarterly installments of approximately \$0.9 million, (ii) annual excess cash flow payments as defined in the Credit Agreement, which are due 95 days after the last day of our fiscal year, and (iii) any payments due upon certain issuances of additional indebtedness and certain asset dispositions,

^{**}Includes cancellation of contracts

with any remaining outstanding principal amount due and payable on the Term Loan Maturity Date. The percentage of excess cash flow we are required to pay ranges from 0% to 75%, depending on our leverage and other factors as defined in the Credit Agreement. Currently, the Credit Agreement would require a 75% excess cash flow payment.

In the first quarter of fiscal 2018, we made a required quarterly installment payment of \$0.9 million. In the second quarter of fiscal 2018, we made a required excess cash flow payment of \$0.2 million, a required quarterly installment payment of \$0.9 million, and an additional \$10.0 million principal payment. Over the next twelve months, our principal payments will be comprised mainly of regular quarterly installments and a required annual excess cash flow payment.

While the Credit Agreement does not contain financial covenants, it does contain informational covenants and certain restrictive covenants, including limitations on liens, mergers and consolidations, sales of assets, payment of dividends, and indebtedness. We were in compliance with all such covenants in all material respects at June 30, 2018.

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The original issue discount and the debt issuance costs have been accounted for as a reduction to the carrying value of the Term Loan on our Consolidated Balance Sheets and are being amortized to Interest expense in our Consolidated Statements of Operations over the contractual term, using the effective interest method.

The fair value of the Term Loan approximates the carrying value, which is reflected in our Consolidated Balance Sheets as follows:

(In thousands)	June 30,	December 30,	
(iii tilousalius)	2018	2017	
Principal amount	\$294,783	\$ 306,791	
Unamortized original issue discount and debt costs	(4,558)	(5,616)
Less: Current portion of long-term debt	(24,526)	(1,508)
Long-term debt	\$265,699	\$ 299,667	

Interest expense related to the Term Loan was included in Interest expense on our Consolidated Statements of Operations as follows:

	Three Months		Six Mon	ths
	Ended		Ended	
(In Inollsands)	June 30	July 1,	June 30, July 1	
	2018	2017	2018	2017
Contractual interest	\$4,762	\$4,167	\$9,290	\$8,710
Amortization of debt issuance costs and discount	551	421	1,058	1,354
Total interest expense related to the Term Loan	\$5,313	\$4,588	\$10,348	\$10,064

As of June 30, 2018, expected future principal payments on the Term Loan were as follows:

Fiscal year	thousands)
2018 (remaining 6 months)	\$ 1,750
2019	26,415
2020	44,204
2021	222,414
	\$ 294,783

(in

Note 15 - Stock-Based Compensation

Total stock-based compensation expense included in our Consolidated Statements of Operations is presented in the following table:

	Three N	Months	Six Mo	nths	
	Ended		Ended		
(In thousands)	June 30	July 1,	June 30,July 1,		
	2018	2017	2018	2017	
Cost of products sold	\$196	\$180	\$433	\$408	
Research and development	837	1,299	2,044	3,149	
Selling, general, and administrative	1,367	1,450	4,723	3,215	
Total stock-based compensation	\$2,400	\$2,929	\$7,200	\$6,772	

The stock-based compensation expense included in Selling, general, and administrative expense for the first six months of fiscal 2018 includes approximately \$1.4 million of additional one-time expense for acceleration of stock

compensation under the CEO separation agreement executed with our former CEO during the first quarter of fiscal 2018.

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In fiscal years 2015 through 2017, we granted stock options and RSUs with a market condition to certain executives. The options have a two year vesting period and can vest between 0% and 200% of the target amount, based on the Company's relative Total Shareholder Return ("TSR") when compared to the TSR of a component of companies in the PHLX Semiconductor Sector Index over a two year period. Under the terms of the grants, executives will receive the target amount if the Company's TSR relative to that of the Index achieves or exceeds the 50h percentile. Executives may receive 200% if the Company's TSR exceeds the 75h percentile. No vesting occurs if the Company's TSR does not exceed the 25th percentile. TSR is a measure of stock price appreciation plus dividends paid, if any, in the performance period. The fair values of the options and RSUs were determined and fixed on the date of grant using a lattice-based option-pricing valuation model incorporating a Monte-Carlo simulation and a consideration of the likelihood that we would achieve the market condition.

The following table summarizes the activity for our stock options with a market condition during the first six months of fiscal 2018:

(Shares in thousands)	Unvested	Vested	Total
Balance, December 30, 2017	707	83	790
Vested	(31)	31	_
Exercised	_	(9)	(9)
Canceled	(428)	(10)	(438)
Balance, June 30, 2018	248	95	343

We incurred stock compensation expense related to these market condition awards of \$0.2 million and \$0.5 million in the second quarter and first six months, respectively, of fiscal 2018 and less than \$0.1 million and \$0.3 million in the second quarter and first six months, respectively, of fiscal 2017, which is recorded as a component of total stock-based compensation expense.

Note 16 - Contingencies

Legal Matters

From time to time, we are exposed to certain asserted and unasserted potential claims. Periodically, we review the status of each significant matter and assess its potential financial exposure. If the potential loss from any claim or legal proceeding is considered probable and a range of possible losses can be estimated, we then accrue a liability for the estimated loss. Legal proceedings are subject to uncertainties, and the outcomes are difficult to predict. Because of such uncertainties, accruals are based only on the best information available at the time. As additional information becomes available, we reassess the potential liability related to pending claims and litigation and may revise estimates.

Other Matters

We maintain certain Value-Added Tax ("VAT") benefits derived from our research and development operations that require filing tax exempt status documentation with local taxing authorities. In relation to one of our Chinese legal entities, we are undergoing an audit of this documentation as of June 30, 2018. Due to the uncertainty in both the outcome and the estimated range of any findings, no liability has been accrued as of June 30, 2018. We believe the findings would not have a material impact on our Consolidated Financial Statements and could be in a range from \$0 to less than \$2 million.

Note 17 - Segment and Geographic Information

Segment Information

In the three and six month periods ended June 30, 2018 and July 1, 2017, respectively, Lattice had one operating segment: the core Lattice business, which includes semiconductor devices, evaluation boards, development hardware, and related intellectual property licensing and sales.

Geographic Information

Our revenue by major geographic area is presented in "Note 2 - Revenue from Contracts with Customers".

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Our Property and equipment, net by country at the end of each period was as follows:

(In thousands)	June 30,	December 30,	
(III tilousalius)	2018	2017	
United States	\$27,975	\$ 30,338	
China	2,714	4,632	
Philippines	3,664	3,883	
Taiwan	1,004	958	
Japan	361	313	
Other	700	299	
Total foreign property and equipment, net	8,443	10,085	
Total property and equipment, net	\$36,418	\$ 40,423	

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

Overview

Lattice Semiconductor and its subsidiaries ("Lattice," the "Company," "we," "us," or "our") develops semiconductor technologies that we monetize through products, solutions, and licenses. We engage in smart connectivity solutions, providing intellectual property ("IP") and low-power, small form-factor devices that enable global customers to quickly and easily develop innovative, smart, and connected products. We help their products become more aware, interact more intelligently, and make better and faster connections. In an increasingly intense global technology market, we help our customers get their products to market faster than their competitors. Our broad end-market exposure extends from mobile devices and consumer electronics to industrial and automotive equipment, communications and computing infrastructure, and licensing. Lattice was founded in 1983 and is headquartered in Portland, Oregon.

Discontinuation of millimeter wave business

In the second quarter of 2018, we made the strategic decision to discontinue our millimeter wave business, which included certain assets related to our Wireless products, and our Board of Directors approved a related internal restructuring plan. This action is designed to improve profitability, reduce our infrastructure costs, and refocus on our core business activities. Approximately \$24.3 million of total expense has been recorded in our Consolidated Statements of Operations through June 30, 2018, including \$11.9 million charged to Impairment of acquired intangible assets, \$8.3 million charged to Cost of product revenue for inventory reserves, and \$4.1 million charged to Restructuring charges for severance and other personnel costs, and for other asset restructuring. See Notes 6, 7, 8 and 13 to our consolidated financial statements presented in Part 1, Item 1 of this Report for additional details.

Critical Accounting Policies and Use of Estimates

Critical accounting policies are those that are both most important to the portrayal of a company's financial condition and results and require management's most difficult, subjective, and complex judgments, often as a result of the need to make estimates about the effect of matters that are inherently uncertain.

Other than our updated policies related to revenue recognition and accounting for costs to obtain and fulfill a customer contract (further discussed in "Note 2 - Revenue from Contracts with Customers" under Part 1, Item 1 of this Report), management believes that there have been no significant changes to the items that we disclosed as our critical

accounting policies and estimates in Management's Discussion and Analysis of Financial Condition and Results of Operations in our Annual Report on form 10-K for the fiscal year ended December 30, 2017.

The preparation of financial statements in conformity with U.S. generally accepted accounting principles ("U.S. GAAP") requires management to make estimates and assumptions that affect the reported amounts and classification of assets, such as marketable securities, accounts receivable, contract assets included in prepaid expenses and other current assets, inventory, goodwill (including the assessment of reporting unit), intangible assets, current and deferred income taxes, accrued liabilities (including restructuring charges and bonus arrangements), disclosure of contingent assets and liabilities at the date of the financial statements, amounts used in acquisition valuations and purchase accounting, impairment assessments, and the reported amounts of product revenue, licensing and services revenue, and expenses during the fiscal periods presented. Actual results could differ from those estimates.

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Results of Operations

Key elements of our Consolidated Statements of Operations are presented in the following table:

	Three Months Ended			Six Month	s Ended				
(In thousands)	June 30, 2018		July 1, 2017 *		June 30, 2018		July 1, 2017 *		
Revenue	\$102,715	100.0 %	\$94,137	100.0 %	\$201,338	100.0 %	\$198,724	100.0 %	
Gross margin	50,248	48.9	51,209	54.4	106,769	53.0	112,041	56.4	
Research and development	21,081	20.5	26,820	28.5	44,022	21.9	54,209	27.3	
Selling, general and administrative	21,068	20.5	21,938	23.3	48,111	23.9	45,843	23.1	
Amortization of acquired intangible assets	4,523	4.4	8,737	9.3	10,159	5.0	17,251	8.7	
Restructuring charges	4,376	4.3	1,576	1.7	5,405	2.7	1,642	0.8	
Acquisition related charges	864	0.8	867	0.9	1,531	0.8	2,527	1.3	
Impairment of intangible assets	11,900	11.6		_	11,900	5.9		_	
Loss from operations	\$(13,564)	(13.2)%	\$(8,729)	(9.3)%	\$(14,359)	(7.1)%	\$(9,431) (4.7)%	

^{*} Results for periods in 2017 presented in accordance with ASC 605, which was in effect during that fiscal year.

We adopted ASC 606, Revenue from Contracts with Customers, on December 31, 2017 using the modified retrospective method. We have not restated any prior financial statements presented. See "Note 2 - Revenue from Contracts with Customers" to our consolidated financial statements and the Revenue discussions, below, for the impact of the adoption of ASC 606.

Effective April 17, 2018, we were restricted from selling to ZTE Kangzun Telecom Co. Ltd. ("ZTE") due to sanctions imposed by the United States Department of Commerce. We believe that this will not have a material effect on either our total revenue or our revenue in Asia, as revenue from ZTE accounted for less than 3% of our total revenue in the first quarter of fiscal 2018. In July 2018, the Department of Commerce lifted the sanctions, subject to ZTE meeting certain requirements. We anticipate that we will continue sales to ZTE after it has done so.

Revenue by End Market

The end market data below is derived from data provided to us by our distributors and end customers. With a diverse base of customers who may manufacture end products spanning multiple end markets, the assignment of revenue to a specific end market requires the use of estimates and judgment. Therefore, actual results may differ from those reported.

Under ASC 606, we recognize certain revenue for which end customers and end markets are not yet known. We assign this revenue first to a specific end market using historical and anticipated usage of the specific products, if possible, and allocate proportionally to the end markets if we cannot identify a specific end market.

Our Licensing and services end market includes revenue from the licensing of our IP, the collection of certain royalties, patent sales, the revenue related to our participation in consortia and standard-setting activities, and services. While Licensing products are primarily sold into the Mobile and Consumer market, Licensing and services revenue is reported as a separate end market as it has characteristics that differ from other categories, most notably its higher

gross margin.

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The following are examples of end market applications:

Communications and Computing Mobile and Consumer Industrial and Automotive Licensing and Services

Smartphones Wireless Security and Surveillance **IP** Royalties Cameras Wireline Machine Vision Adopter Fees **IP** Licenses Data Backhaul **Displays Industrial Automation** Computing **Tablets Human Computer Interaction Patent Sales** Servers Wearables Automotive **Testing Services**

Data Storage Televisions and Home Theater Drones

The composition of our revenue by end market is presented in the following table:

-	Three Mo	ded		Six Months Ended				
(In thousands)	June 30,		July 1,		June 30,		July 1,	
(III tilousalius)	2018		2017 *		2018		2017 *	
Communications and Computing	\$29,514	29 %	\$27,039	29 %	\$57,653	29 %	\$57,049	29 %
Mobile and Consumer	24,300	24	25,119	27	51,006	25	56,918	29
Industrial and Automotive	44,480	43	31,010	32	84,744	42	61,870	30
Licensing and Services	4,421	4	10,969	12	7,935	4	22,887	12
Total revenue	\$102,715	100%	\$94,137	100%	\$201,338	100%	\$198,724	100%

^{*} Results for periods in 2017 presented in accordance with ASC 605, which was in effect during that fiscal year.

Revenue from the Communications and Computing end market increased by 9% for the second quarter of fiscal 2018 compared to the second quarter of fiscal 2017 due to continued demand increases for server reference design products. Revenue increased 1% for the first six months of fiscal 2018 compared to the first six months of fiscal 2017 as gains in the Computing end market, again due to demand for server reference design devices, and strength at a major telecommunications customer were partially offset by the effects of the U.S. Commerce Department sanctions against ZTE.

Revenue from the Mobile and Consumer end market decreased by 3% for the second quarter of fiscal 2018 compared to the second quarter of fiscal 2017 and by 10% for the first six months of fiscal 2018 compared to the first six months of fiscal 2017 due to a decline in demand for products supporting a major handset manufacturer, partially offset by home automation and handset screen replacement product increased demand.

Revenue from the Industrial and Automotive end market increased by 43% for the second quarter of fiscal 2018 compared to the second quarter of fiscal 2017 due to broad market increases in the Industrial end market. Revenue increased by 37% for the first six months of fiscal 2018 compared to the first six months of fiscal 2017 again due to broad market increases in the Industrial end market as well as growth from the products supporting industrial video applications and factory automation robotics applications.

Revenue from the Licensing and Services end market decreased 60% for the second quarter of fiscal 2018 compared to the second quarter of fiscal 2017 and decreased 65% for the first six months of fiscal 2018 compared to the first six months of fiscal 2017. For both periods, this decrease was predominantly due to revenue from a patent sale in the first half of fiscal 2017 that did not recur in the current period, and by the absence of revenue from Simplay Labs testing activities after the sale of that business unit at the end of the third quarter of fiscal 2017. These decreases are partially offset by HDMI royalties that we recognized as revenue in the second quarter and first six months of fiscal 2018 under ASC 606 but were not able to recognize in the comparable periods of fiscal 2017 under the previous guidance.

We share HDMI royalties with the other HDMI Founders based on an allocation formula, which is reviewed every three years. The most recent royalty sharing formula covered the period from January 1, 2014 through December 31,

2016, and an interim agreement covering the period from January 1, 2017 through December 31, 2017 was signed in the second quarter of fiscal 2018. However, a new agreement covering the period beginning January 1, 2018 is yet to be signed. As a result of the signing of the HDMI Founders royalty sharing agreement for 2017, we received \$6.4 million in cash during the second quarter of fiscal 2018 for fiscal 2017 HDMI royalties. Collection of this amount had no impact on our reported revenues and was recorded as a reduction to the contract asset recorded in Prepaid expenses and other current assets in our Consolidated Balance Sheets. This contract asset was recorded in the first quarter of fiscal 2018 with an offset to Accumulated deficit as a cumulative effect adjustment for the adoption of ASC 606.

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HDMI royalties are considered variable consideration under the new revenue standard and recognized as royalty revenue as usage occurs. While a new royalty sharing agreement is being negotiated with the other Founders of the HDMI consortium for fiscal 2018, we are estimating our share of royalty revenues under an anticipated new agreement. Before the HDMI royalty sharing agreement is signed, we estimate that we will recognize \$1 million to \$2 million of additional licensing and services revenue every quarter under ASC 606 that we would not have recognized under previous guidance. Once the HDMI royalty sharing agreement is signed, ongoing fiscal 2018 HDMI royalty revenue recognition under both ASC 606 and previous guidance will be consistent.

For the second quarter of fiscal 2018, adoption of ASC 606 decreased our revenues by \$0.3 million compared to revenue that would have been recognized under previous guidance. This was comprised of a \$4.1 million increase due to the acceleration of revenue recognition on sales to certain distributors, with \$1.8 million attributed to Communications and Computing, \$0.3 million attributed to Mobile and Consumer, and \$2.0 million attributed to Industrial and Automotive. This was offset by a \$4.4 million decrease in licensing and services revenue comprised of \$6.4 million in 2017 HDMI royalties collected that are not recorded as revenue in fiscal 2018 under ASC 606, and an increase of \$2.0 million, mainly in HDMI royalties and audit settlements for the second quarter of fiscal 2018.

For the first six months of fiscal 2018, adoption of ASC 606 increased our revenues by \$9.1 million compared to revenue that would have been recognized under previous guidance. Of this amount, \$12.3 million was due to the acceleration of revenue recognition on sales to certain distributors, with \$3.3 million attributed to Communications and Computing, \$5.1 million attributed to Mobile and Consumer, and \$3.9 million attributed to Industrial and Automotive. This was offset by a \$3.2 million decrease in licensing and services revenue comprised of \$6.4 million in 2017 HDMI royalties collected that are not recorded as revenue in fiscal 2018 under ASC 606, and an increase of \$3.2 million, mainly in HDMI royalties and audit settlements for the first six months of fiscal 2018.

Revenue by Geography

We assign revenue to geographies based on ship-to location of the end customer, where available, and based upon the location of the distributor to which the product was shipped otherwise.

The composition of our revenue by geography is presented in the following table:

	Three Months Ended				Six Month			
(In thousands)	June 30,		July 1,		June 30,		July 1,	
(III tilousalius)	2018		2017 *		2018		2017 *	
Asia	\$77,899	76 %	\$64,946	69 %	\$149,820	74 %	\$138,404	70 %
Europe	12,162	12	10,579	11	24,304	12	21,659	11
Americas	12,654	12	18,612	20	27,214	14	38,661	19
Total revenue	\$102,715	100%	\$94,137	100%	\$201,338	100%	\$198,724	100%

^{*} Results for periods in 2017 presented in accordance with ASC 605, which was in effect during that fiscal year.

Revenue in Asia increased 20% for the second quarter of fiscal 2018 compared to the second quarter of fiscal 2017 and increased 8% for the first six months of fiscal 2018 compared to the first six months of fiscal 2017. Asia revenue is heavily affected by revenue from all of the end markets we serve. The increase in the second quarter of fiscal 2018 was predominately due to strength at a major telecommunications customer, even as we were affected by the U.S. Commerce Department sanctions against ZTE. We also saw increasing demand for our products performing control applications in servers, significant growth in the Consumer space from several handset screen replacement customers, and increased demand from Industrial broad market customers. These increases were partially offset by decline in Asia, primarily due to a major handset manufacturer's demand decline.

Revenue in Europe increased 15% for the second quarter of fiscal 2018 compared to the second quarter of fiscal 2017 and increased 12% for the first six months of fiscal 2018 compared to the first six months of fiscal 2017 as the region is showing renewed growth in the broad market, especially in the Industrial end market.

Revenue from the Americas decreased 32% for the second quarter of fiscal 2018 compared to the second quarter of fiscal 2017 and decreased 30% for the first six months of fiscal 2018 compared to the first six months of fiscal 2017 due to a patent sale that was recognized in the first and second quarters of fiscal 2017 but did not recur in the first and second quarters of fiscal 2018. This was partially offset by other royalty revenue and broad market growth in the region.

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For the second quarter of fiscal 2018, adoption of ASC 606 decreased our revenues by \$0.3 million compared to revenue that would have been recognized under previous guidance. This was comprised of a \$4.1 million increase due to the acceleration of revenue recognition on sales to certain distributors, with \$3.4 million attributed to Asia, \$0.3 million attributed to Europe, and \$0.4 million attributed to the Americas. This was offset by the \$4.4 million decrease in licensing and services revenue, attributed to the Americas, described above.

For the first six months of fiscal 2018, adoption of ASC 606 increased our revenues by \$9.1 million compared to revenue that would have been recognized under previous guidance. Of this amount, \$12.3 million was due to the acceleration of revenue recognition on sales to certain distributors, with \$11.0 million of this amount attributed to Asia, and \$1.3 million attributed to the Americas. This was offset by the \$3.2 million decrease in licensing and services revenue, attributed to the Americas, described above.

Revenue from End Customers

Our top five end customers constituted approximately 17% of our revenue for the second quarter of fiscal 2018, compared to approximately 27% for the second quarter of fiscal 2017. Our top five end customers constituted approximately 17% of our revenue for the first six months of fiscal 2018, compared to approximately 32% for the first six months of fiscal 2017.

Our largest end customer accounted for approximately 5% of total revenue in the second quarter of fiscal 2018 and 9% of total revenue in the first six months of fiscal 2018. Our largest end customer accounted for approximately 9% of total revenue in the second quarter of fiscal 2017 and approximately 10% of total revenue first six months of fiscal 2017. No other customers accounted for more than 10% of total revenue during these periods.

Under ASC 606, we did not have enough information to assign end customers to approximately \$4.1 million and \$12.3 million of revenue recognized for the three and six months ended June 30, 2018, respectively, on shipments to distributors that have not sold through to end customers.

Revenue from Distributors

Distributors have historically accounted for a significant portion of our total revenue. Revenue attributable to our primary distributors is presented in the following table:

% of Total	% of Total
Revenue	Revenue
Three Months	Six Months
Ended	Ended
July	July
June 310,	June 310,
,,	June Jig,
2018 2017	

Arrow Electronics Inc. 35% 23% 33% 22% Weikeng Group 25 26 26 27 All others 26 27 28 24 All distributors ** 86% 76% 87% 73%

^{*} Results for periods in 2017 presented in accordance with ASC 605, which was in effect during that fiscal year.

^{**}During the first quarter of 2018, we updated our channel categories to group all forms of distribution into a single channel. Prior periods have been reclassified to match current period presentation.

Revenue attributable to revenue streams other than distributors decreased in the second quarter and first six months of fiscal 2018 compared to the second quarter and first six months of fiscal 2017, resulting in increases in distribution revenue as a percentage of total revenue.

The most significant impact of the adoption of ASC 606 was to accelerate the timing of revenue recognition on product shipments to most of our distributors, resulting in an additional \$4.1 million and \$12.3 million of revenue, respectively in the second quarter and first six months of fiscal 2018. Assuming all other revenue recognition criteria have been met, the new guidance requires us to recognize revenue and costs relating to such sales upon shipment to the distributor - subject to reductions for estimated reserves for price adjustments and returns - rather than upon the ultimate sale by the distributor to its end customer, as was our previous practice. The impact of this change will depend primarily on the level of inventory held by distributors at the beginning and end of each period. To the extent these inventory levels fluctuate significantly, revenue under the new standard could be materially different than that under the previous standard. We anticipate that the benefit to product revenue resulting from distributor inventory inclines will be reduced in the third and, potentially, the fourth quarter of fiscal 2018. We currently expect the adoption of the new standard to increase revenue recognized from distributors in the \$3 million to \$6 million range in 2018 compared to revenue recognized from distributors under the previous standard in 2017.

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Gross Margin

The composition of our gross margin, including as a percentage of revenue, is presented in the following table:

	Three Months Ended			Six Mon	ths	Ended		
(In thousands)	June 30,	July 1,			June 30,		July 1,	
(In thousands)	2018		2017		2018		2017	
Gross margin	\$50,248		\$51,209		\$106,769		\$112,041	
Percentage of net revenue	48.9	%	54.4	%	53.0	%	56.4	%
Product gross margin %	46.9	%	51.0	%	51.2	%	53.2	%
Licensing and services gross margin %	94.1	%	80.1	%	96.7	%	81.1	%

For the second quarter and first six months of fiscal 2018 compared to the second quarter and first six months of fiscal 2017, gross margin decreased by 5.5 and 3.4 percentage points, respectively. This decline was primarily due to the effect of \$8.3 million in specific inventory reserves taken on products that are being eliminated with the discontinuation of our millimeter wave business. This was partially offset by decreased volume and costs from the consumer end market. The overall gross margin was also influenced by the relative mix between product revenue and licensing and services revenue. Licensing and services accounted for approximately 4% of total revenue in the second quarter and first six months of fiscal 2018 compared to approximately 12% in the second quarter and first six months of fiscal 2017.

The primary contributor to the 4.1 and 2.0 percentage point decrease in product gross margin in the second quarter and the first six months of fiscal 2018 was the one-time charge of \$8.3 million for specific inventory reserves taken on products that are being eliminated with the discontinuation of our millimeter wave business. This was partially offset by decreased volume and costs from the consumer end market.

The 14.0 and 15.6 percentage point increase in licensing and services gross margin in the second quarter and for first six months of fiscal 2018 compared to the respective periods in fiscal 2017, was due primarily to the \$18.0 million patent sale that was recognized in two installments during the first six months of fiscal 2017. The costs associated with the patent sale of \$3.6 million, primarily the net book value of the patents acquired in our acquisition of Silicon Image, were greater than usual for this category and had a substantial impact on licensing and services gross margin.

Because of its higher margin, the licensing and services portion of our overall revenue can have a disproportionate impact on gross margin and profitability. For programmable and standard products, we expect that product, end market, and customer mix will subject our gross margin to fluctuation, while we expect downward pressure on average selling price to adversely affect our gross margin in the future. If we are unable to realize additional or sufficient product cost reductions in the future to balance changes in product and customer mix, we may experience degradation in our product gross margin.

Operating Expenses

Research and Development Expense

The composition of our Research and development expense, including as a percentage of revenue, is presented in the following table:

	Three Months Ended		Six Months Ended			
(In thousands)	June 30,	July 1,	% change	June 30,	July 1,	%
	2018	2017		2018	2017	change
Research and development	\$21,081	\$26,820	(21)	\$44,022	\$54,209	(19)
Percentage of revenue	20.5 %	28.5 %		21.9 %	27.3 %	

Mask costs included in Research and development \$35 \$897 (96) \$521 \$1,060 (51)

Research and development expense includes costs for compensation and benefits, stock compensation, development masks, engineering wafers, depreciation, licenses, and outside engineering services. These expenditures are for the design of new products, IP cores, processes, packaging, and software to support new products.

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The decrease in Research and development expense for the second quarter and first six months of fiscal 2018 compared to the second quarter and first six months of fiscal 2017 is due mainly to the cost reductions realized from restructuring actions and from the sale of assets and a business unit. These savings were predominantly from headcount related expenses, including lower stock compensation expense, and from reductions in time-based licenses. There was also a decrease year-over-year in mask expenses due to the timing of projects.

We believe that a continued commitment to Research and development is essential to maintaining product leadership and providing innovative new product offerings and, therefore, we expect to continue to make significant future investments in Research and development.

Selling, General, and Administrative Expense

The composition of our Selling, general, and administrative expense, including as a percentage of revenue, is presented in the following table:

Three Months Six Months Ended Ended June 30, July 1, June 30, July 1, (In thousands) % change % change 2018 2018 2017 2017 Selling, general, and administrative \$21,068 \$21,938 (4) \$48,111 \$45,843 5 Percentage of revenue 20.5 %