

ELECTRO SCIENTIFIC INDUSTRIES INC

FORM 10-Q (Quarterly Report)

Filed 02/08/17 for the Period Ending 12/31/16

Address	13900 NW SCIENCE PARK DR PORTLAND, OR 97229
Telephone	5036414141
CIK	0000726514
Symbol	ESIO
SIC Code	3690 - Miscellaneous Electrical Machinery, Equipment,
Industry	Electrical Components & Equipment
Sector	Industrials
Fiscal Year	03/28

**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 December 31, 2016

OR

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

For the transition period from to

Commission File Number: 0-12853

ELECTRO SCIENTIFIC INDUSTRIES, INC.

Oregon

(State or other jurisdiction of incorporation
or organization)

93-0370304

(I.R.S. Employer Identification No.)

13900 N.W. Science Park Drive, Portland, Oregon

(Address of principal executive offices)

97229

(Zip Code)

Registrant's telephone number, including area code: 503-641-4141

Registrant's web address: www.esi.com

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically 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 that the registrant was required to submit and post such files). Yes No

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

Large accelerated filer

Accelerated filer

Non-accelerated filer

Smaller reporting company

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

The number of shares outstanding of the Registrant's Common Stock as of February 3, 2017 was 32,670,422 shares.

ELECTRO SCIENTIFIC INDUSTRIES, INC. AND SUBSIDIARIES
2017 FORM 10-Q QUARTERLY REPORT
TABLE OF CONTENTS

Part I	FINANCIAL INFORMATION	
Item 1.	Financial Statements (Unaudited)	
	Condensed Consolidated Balance Sheets - at December 31, 2016 and April 2, 2016	3
	Condensed Consolidated Statements of Operations - for the fiscal quarter and three fiscal quarters ended December 31, 2016 and January 2, 2016	4
	Condensed Consolidated Statements of Comprehensive Loss - for the fiscal quarter and three fiscal quarters ended December 31, 2016 and January 2, 2016	5
	Condensed Consolidated Statements of Cash Flows - for the three fiscal quarters ended December 31, 2016 and January 2, 2016	6
	Notes to Condensed Consolidated Financial Statements	7
Item 2.	Management's Discussion and Analysis of Financial Condition and Results of Operations	21
Item 3.	Quantitative and Qualitative Disclosures about Market Risk	29
Item 4.	Controls and Procedures	29
Part II	OTHER INFORMATION	
Item 1.	Legal Proceedings	30
Item 1A.	Risk Factors	30
Item 4.	Mine Safety Disclosures	40
Item 6.	Exhibits and Financial Statement Schedules	41
	SIGNATURES	42

ELECTRO SCIENTIFIC INDUSTRIES, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED BALANCE SHEETS
(Unaudited)

<u>(In thousands)</u>	<u>December 31, 2016</u>	<u>April 2, 2016</u>
ASSETS		
Current assets:		
Cash and cash equivalents	\$ 44,891	\$ 42,413
Short-term investments	6,301	15,252
Trade receivables, net of allowances of \$685 and \$1,039	27,644	42,770
Inventories, net	58,830	60,470
Shipped systems pending acceptance	3,983	1,181
Other current assets	5,903	5,340
Total current assets	147,552	167,426
Non-current assets:		
Property, plant and equipment, net of accumulated depreciation of \$111,811 and \$107,910, (PP&E)	23,660	24,543
Non-current deferred income taxes, net	836	914
Goodwill	9,352	7,445
Acquired intangible assets, net of accumulated amortization of \$21,979 and \$21,146	9,611	7,146
Other assets	17,025	12,626
Total assets	\$ 208,036	\$ 220,100
LIABILITIES AND SHAREHOLDERS' EQUITY		
Current liabilities:		
Accounts payable	\$ 14,345	\$ 16,061
Accrued liabilities	16,015	18,334
Deferred revenue	10,822	6,373
Total current liabilities	41,182	40,768
Non-current liabilities:		
Income taxes payable	1,048	1,266
Deferred income tax liability, net	218	234
Other liabilities	6,085	7,801
Total liabilities	48,533	50,069
Commitments and contingencies (See Note 13 "Commitments & Contingencies")		
Shareholders' equity:		
Preferred stock, without par value; 1,000 shares authorized; no shares issued	—	—
Common stock, without par value; 100,000 shares authorized; 33,151 and 31,613 issued and outstanding	204,859	195,024
Accumulated deficit	(43,485)	(23,998)
Accumulated other comprehensive loss	(1,871)	(995)
Total shareholders' equity	159,503	170,031
Total liabilities and shareholders' equity	\$ 208,036	\$ 220,100

The accompanying notes are an integral part of these unaudited condensed consolidated financial statements

ELECTRO SCIENTIFIC INDUSTRIES, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS
(Unaudited)

(In thousands, except per share amounts)	Fiscal quarter ended		Three fiscal quarters ended	
	December 31, 2016	January 2, 2016	December 31, 2016	January 2, 2016
Net sales:				
Systems	\$ 25,427	\$ 31,282	\$ 85,069	\$ 98,914
Services	8,352	12,060	26,036	33,991
Total net sales	33,779	43,342	111,105	132,905
Cost of sales:				
Systems	17,283	20,292	53,851	63,922
Services	5,048	5,329	14,018	17,464
Total cost of sales	22,331	25,621	67,869	81,386
Gross profit	11,448	17,721	43,236	51,519
Operating expenses:				
Selling, general and administrative	13,280	12,468	38,917	37,619
Research, development and engineering	7,868	7,778	23,258	24,706
Acquisition and integration costs	31	—	366	194
Restructuring costs	321	1,944	321	2,597
Net operating expenses	21,500	22,190	62,862	65,116
Operating loss	(10,052)	(4,469)	(19,626)	(13,597)
Non-operating income:				
Interest and other income, net	34	67	162	68
Total non-operating income	34	67	162	68
Loss before income taxes	(10,018)	(4,402)	(19,464)	(13,529)
(Benefit from) provision for income taxes	(325)	184	22	681
Net loss	\$ (9,693)	\$ (4,586)	\$ (19,486)	\$ (14,210)
Net loss per share - basic	\$ (0.29)	\$ (0.15)	\$ (0.60)	\$ (0.45)
Net loss per share - diluted	\$ (0.29)	\$ (0.15)	\$ (0.60)	\$ (0.45)
Weighted average number of shares - basic	32,919	31,495	32,379	31,355
Weighted average number of shares - diluted	32,919	31,495	32,379	31,355

The accompanying notes are an integral part of these unaudited condensed consolidated financial statements

ELECTRO SCIENTIFIC INDUSTRIES, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE LOSS
(Unaudited)

(In thousands)	Fiscal quarter ended		Three fiscal quarters ended	
	December 31, 2016	January 2, 2016	December 31, 2016	January 2, 2016
Net loss	\$ (9,693)	\$ (4,586)	\$ (19,486)	\$ (14,210)
Other comprehensive loss:				
Foreign currency translation adjustment, net of taxes of \$0, \$0, \$0 and \$0	(745)	(68)	(884)	(793)
Accumulated other comprehensive income related to benefit plan obligation, net of taxes of \$(5), \$(2), \$(7) and \$(7)	5	4	14	12
Net unrealized loss on available-for-sale securities, net of taxes of \$0, \$0, \$0 and \$0	(2)	2	(6)	1
Other comprehensive loss:	(742)	(62)	(876)	(780)
Comprehensive loss	<u>\$ (10,435)</u>	<u>\$ (4,648)</u>	<u>\$ (20,362)</u>	<u>\$ (14,990)</u>

The accompanying notes are an integral part of these unaudited condensed consolidated financial statements

ELECTRO SCIENTIFIC INDUSTRIES, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS
(Unaudited)

(In thousands)	Three fiscal quarters ended	
	December 31, 2016	January 2, 2016
CASH FLOWS FROM OPERATING ACTIVITIES		
Net loss	\$ (19,486)	\$ (14,210)
Adjustments to reconcile net loss to net cash provided by operating activities:		
Depreciation and amortization	5,424	5,659
Amortization of acquired intangible assets	832	1,047
Share-based compensation expense	5,118	3,939
Loss on disposition of property, plant and equipment, net	52	788
(Benefit from) provision for doubtful accounts	(341)	127
Charges for write-off of damaged product	946	—
Decrease (increase) in deferred income taxes	37	(71)
Changes in operating accounts, net of acquisitions:		
Decrease in trade receivables, net	15,258	8,593
Increase in inventories	(3,259)	(7,046)
(Increase) decrease in shipped systems pending acceptance	(2,802)	1,342
(Increase) decrease in other current assets	(738)	1,967
(Decrease) increase in accounts payable and accrued liabilities	(5,189)	10,531
Increase (decrease) in deferred revenue	4,449	(4,668)
Net cash provided by operating activities	301	7,998
CASH FLOWS FROM INVESTING ACTIVITIES		
Purchase of investments	(331,343)	(320,581)
Proceeds from sales and maturities of investments	339,691	306,423
Purchase of property, plant and equipment	(3,408)	(2,740)
Proceeds from sale of property, plant and equipment	7	2
Cash paid for business acquisitions, net of cash acquired	(2,010)	—
Increase in other assets	(120)	(133)
Net cash provided by (used in) investing activities	2,817	(17,029)
CASH FLOWS FROM FINANCING ACTIVITIES		
Payment of withholding taxes on stock-based compensation	(801)	(645)
Proceeds from issuance of common stock	1,043	1,056
Net cash provided by financing activities	242	411
Effect of exchange rate changes on cash	(882)	(303)
NET CHANGE IN CASH AND CASH EQUIVALENTS	2,478	(8,923)
CASH AND CASH EQUIVALENTS AT BEGINNING OF PERIOD	42,413	50,994
CASH AND CASH EQUIVALENTS AT END OF PERIOD	\$ 44,891	\$ 42,071
SUPPLEMENTAL CASH FLOW INFORMATION		
Cash paid for interest	\$ (30)	\$ (57)
Cash paid for income taxes	(504)	(799)
Income tax refunds received	45	140
Net increase in PP&E and other assets related to transfers from inventory	5,414	2,988
Non-cash additions to PP&E	205	160

The accompanying notes are an integral part of these unaudited condensed consolidated financial statements

ELECTRO SCIENTIFIC INDUSTRIES, INC.
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS
(Unaudited)

1. Basis of Presentation

These unaudited interim condensed consolidated financial statements have been prepared pursuant to the rules and regulations of the Securities and Exchange Commission. Certain information and footnote disclosures normally included in annual financial statements prepared in accordance with United States generally accepted accounting principles ("U.S. GAAP") have been condensed or omitted in these interim statements. Accordingly, these condensed consolidated financial statements are to be read in conjunction with the financial statements and notes included in the Company's Annual Report on Form 10-K for its fiscal year ended April 2, 2016. These interim statements include all adjustments (consisting of only normal recurring adjustments and accruals) necessary for a fair presentation of results for the interim periods presented. The results for interim periods are not necessarily indicative of the results of operations for the entire year.

The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of commitments and contingencies at the date of the financial statements and the reported amounts of revenues and expenses during the reporting periods. Actual results may differ from those estimates.

Management believes that the estimates used are reasonable. Significant estimates made by management include: revenue recognition; inventory valuation; product warranty reserves; allowance for doubtful accounts; accrued restructuring costs; share-based compensation; income taxes including the valuation of deferred tax assets; fair value measurements; acquisition accounting; valuation of long-lived assets; valuation of goodwill; and valuation of acquired technology.

Except for the added policy below, there have been no significant changes to the Company's significant accounting policies from those presented in Note 2 "Summary of Significant Accounting Policies" to the consolidated financial statements included in the Company's Annual Report on Form 10-K for its fiscal year ended April 2, 2016. All references to years or quarters relate to fiscal years or fiscal quarters unless otherwise noted. The fiscal quarter ended December 31, 2016 consisted of a 13-week period while the fiscal quarter ended January 2, 2016 consisted of a 14-week period. Similarly, the three fiscal quarters ended December 31, 2016 consisted of a 39-week period compared to a 40-week period for the three fiscal quarters ended January 2, 2016.

Acquisition Accounting

The fair value of the consideration exchanged in an acquisition is allocated to tangible assets and identifiable intangible assets acquired and liabilities assumed at acquisition date fair value. Goodwill is measured as the excess of the consideration transferred over the net fair value of identifiable assets acquired and liabilities assumed. The accounting for an acquisition involves a considerable amount of judgment and estimation. Cost, income, market or a combination of approaches may be used to establish the fair value of consideration exchanged, assets acquired and liabilities assumed, depending on the nature of those items. The valuation approach is determined in accordance with generally accepted valuation methods or other generally accepted methods. Key areas of estimation and judgment may include projections of future performance, cost of capital, market characteristics, cost structure, impacts of synergies, and estimates of terminal value, among others.

While the Company uses best estimates and assumptions as part of the purchase price allocation process to estimate the value of assets acquired and liabilities assumed, estimates are inherently uncertain and subject to refinement. During the measurement period, which may be up to one year from the acquisition date, the Company may record adjustments to the assets acquired and liabilities assumed, with a corresponding offset to goodwill, to the extent that adjustments are identified to the preliminary purchase price allocation. Upon conclusion of the measurement period, or final determination of the value of the assets acquired and liabilities assumed, whichever comes first, any subsequent adjustments are recorded to results from operations. Refer to Note 5, "Business Acquisitions" of Notes to Condensed Consolidated Financial Statements for further discussion of purchase accounting, valuation methodology and assumptions.

2. Recent Accounting Pronouncements

In January 2017, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") 2017-04, Intangibles—Goodwill and Other (Topic 350): Simplifying the Test for Goodwill Impairment in order to simplify the accounting for goodwill impairment where step 2 was required in the past. In place of step 2, companies will recognize an impairment loss equal to the amount by which the carrying value exceeds the value; not to exceed the total amount of goodwill allocated to the reporting unit. ASU 2017-04 is effective, for SEC filers, for annual periods beginning after December 15, 2019, and interim periods within those annual periods, which would be the Company's fiscal year ending March 27, 2021; early adoption is permitted for interim or annual goodwill impairment tests performed on testing dates after January 1, 2017. While the Company does not expect the adoption of ASU 2017-04 to have a material effect on its business, the Company is still evaluating any potential impact that adoption of ASU 2017-04 may have on its financial position, results of operations or cash flows.

In May 2014, the FASB issued ASU 2014-09, Revenue from Contracts with Customers: Topic 606 (ASU 2014-09), to supersede nearly all existing revenue recognition guidance under U.S. GAAP. The core principle of ASU 2014-09 is to recognize revenues when promised goods or services are transferred to customers in an amount that reflects the consideration that is expected to be received for those goods or services. In August 2015, the FASB issued ASU 2015-14, Revenue from Contracts with Customers: Deferral of the Effective Date, which deferred the effective date for implementation of ASU 2014-09 by one year, making the new guidance effective for annual reporting periods beginning after December 15, 2017, with early adoption permitted no earlier than the original effective date. The FASB has continued to issue ASU topics to further clarify ASU 2014-09. These have included ASU 2016-08, ASU 2016-10, ASU 2016-12, and ASU 2016-20. The effective date and transition requirements of these ASU topics are the same as the effective date and transition requirements of ASU 2015-14. The Company has not yet selected a transition method and is currently evaluating the effect that the updated standards will have on the consolidated financial statements and related disclosures. The new standards are effective for the Company's fiscal year ending March 30, 2019.

In November 2016, the FASB issued ASU 2016-18, Statement of Cash Flows (Topic 230) Restricted Cash (a consensus of the FASB Emerging Issues Task Force), which provides specific guidance for classifying and presenting changes in restricted cash and restricted cash equivalents on the statement of cash flows due to transfers or transactions in order to reduce the diversity in practice. ASU 2016-18 is effective for annual periods beginning after December 15, 2017, and interim periods within those annual periods, which would be the Company's fiscal year ending March 30, 2019. While the Company does not expect the adoption of ASU 2016-18 to have a material effect on its business, the Company is still evaluating any potential impact that adoption of ASU 2016-18 may have on its financial position, results of operations or cash flows.

In October 2016, the FASB issued ASU 2016-17, Consolidation (Topic 810): Interests Held through Related Parties That Are under Common Control, which amends guidance on related parties under common control and the consideration of indirect interests held by related parties under common control by the single decision maker. ASU 2016-17 is effective for annual periods beginning after December 15, 2017, and interim periods within those annual periods, which would be the Company's fiscal year ending March 30, 2019. While the Company does not expect the adoption of ASU 2016-17 to have a material effect on its business, the Company is still evaluating any potential impact that adoption of ASU 2016-17 may have on its financial position, results of operations or cash flows.

In October 2016, the FASB issued ASU 2016-16, Income Taxes (Topic 740): Intra-Entity Transfers of Assets Other Than Inventory, to improve and simplify the accounting for the income tax consequences of intra-entity transfers of assets other than inventory, requiring companies to recognize income tax consequences upon the transfer of the asset to a third party. ASU 2016-16 is effective for annual periods beginning after December 15, 2017, and interim periods within those annual periods, which would be the Company's fiscal year ending March 30, 2019. While the Company does not expect the adoption of ASU 2016-16 to have a material effect on its business, the Company is still evaluating any potential impact that adoption of ASU 2016-16 may have on its financial position, results of operations or cash flows.

In August 2016, the FASB issued ASU 2016-15, Statement of Cash Flows (Topic 230) Classification of Certain Cash Receipts and Cash Payments, which will make eight targeted changes to how cash receipts and cash payments are presented and classified in the statement of cash flows. The Company elected to early adopt ASU 2016-15 and it did not have any effect on the Company's cash flows.

In March 2016, the FASB issued ASU 2016-09, “Compensation – Stock Compensation – Improvements to Employee Share-Based Payment Accounting.” ASU 2016-09 simplifies the accounting for several aspects of the accounting for share-based payment transactions, including the income tax consequences, classification of awards as either equity or liabilities and classification on the statement of cash flows. ASU 2016-09 is effective for annual periods beginning after December 15, 2016, and interim periods within those annual periods, which would be the Company's fiscal year ending March 31, 2018. While the Company does not expect the adoption of ASU 2016-09 to have a material effect on its business, the Company is still evaluating any potential impact that adoption of ASU 2016-09 may have on its financial position, results of operations or cash flows.

In February 2016, the FASB issued ASU 2016-02, “Leases.” ASU 2016-02 increases transparency and comparability among organizations by recognizing lease assets and lease liabilities on the balance sheet and requires disclosing key information about leasing arrangements. ASU 2016-02 is effective for annual periods beginning after December 15, 2018 and interim periods within those annual periods, which would be the Company's fiscal year ending March 28, 2020. While the Company does not expect the adoption of ASU 2016-02 to have a material effect on its business, the Company is still evaluating any potential impact that adoption of ASU 2016-02 may have on its financial position, results of operations or cash flows.

3. Share-Based Compensation

The Company's share-based compensation consists of stock-settled stock appreciation rights (SARs), restricted stock unit awards with a service condition (time-based RSUs), restricted stock unit awards with a performance condition (performance-based RSUs), restricted stock unit awards with a market condition (market-based RSUs) and an employee stock purchase plan.

The Company recognizes expense related to the fair value of SARs and employee stock purchase plan using the Black-Scholes model to estimate the fair value of awards on the date of grant. SARs grant the right to receive shares of the Company's stock equivalent to the increase in stock value of a specified number of shares over a specified period of time, divided by the stock price at the time of exercise. The fair value of time-based RSUs and performance-based RSUs are measured on the grant date based on the market value of the Company's common stock. The market-based RSUs must achieve the total shareholder return (TSR) measures in order for the awards to vest, and the grant date fair value of the awards is calculated using a Monte Carlo simulation model.

The Company recognizes compensation expense for all share-based compensation awards, net of estimated forfeitures, on a straight-line basis over the requisite service period of the award. Expense for performance-based RSUs is recognized based on the probability of achievement of the performance criteria. The compensation cost for market-based RSUs is recognized over the related service period, even if the market condition is never satisfied.

The Company granted a total of 943,445 time-based RSUs, 443,565 market-based RSUs and 90,000 performance-based RSUs during the first three quarters of 2017, but did not grant any SARs. Grants for the third quarter of 2017 included 248,565 market-based RSUs and 229,445 time-based RSUs granted to the Company's newly appointed President and CEO.

Share-based compensation expense under the stock incentive plans is included in the Company's Condensed Consolidated Statements of Operations as follows:

(In thousands)	Fiscal quarter ended		Three fiscal quarters ended	
	December 31, 2016	January 2, 2016	December 31, 2016	January 2, 2016
Cost of sales	\$ 142	\$ 103	\$ 398	\$ 347
Selling, general and administrative	1,391	832	3,573	2,291
Research, development and engineering	285	188	656	613
Total share-based compensation expense	\$ 1,818	\$ 1,123	\$ 4,627	\$ 3,251

The Company does not capitalize share-based compensation costs. As of December 31, 2016, the Company had \$10.6 million of total unrecognized share-based compensation costs, net of estimated forfeitures, which are expected to be recognized over a weighted average period of 1.8 years.

4. Fair Value Measurements

Financial Assets and Liabilities Measured at Fair Value

ASC Topic 820 establishes a three-tier fair value hierarchy, which prioritizes the inputs used in measuring fair value. These tiers include the following:

- *Level 1*, defined as observable inputs such as quoted prices in active markets for identical assets or liabilities;
- *Level 2*, defined as inputs that are observable either directly or indirectly such as quoted prices for similar assets or liabilities in active markets, quoted prices for identical or similar assets or liabilities in markets that are not active and other inputs that can be corroborated by observable market data; and
- *Level 3*, defined as unobservable inputs for which little or no market data exists, therefore requiring an entity to develop its own assumptions.

The Company's fair value hierarchy for its financial assets and liabilities measured at fair value on a recurring basis as of December 31, 2016 and April 2, 2016 was as follows (in thousands):

December 31, 2016	Level 1		Level 2		Level 3		Total
Cash equivalents:							
Money market securities	\$	3,370	\$	—	\$	—	\$ 3,370
Commercial paper		—		11,196		—	11,196
Total cash equivalents	\$	3,370	\$	11,196	\$	—	\$ 14,566
Short term investments - available for sale:							
U.S. treasury fund	\$	1,003	\$	—	\$	—	\$ 1,003
Commercial paper		—		4,295		—	4,295
Government agencies		—		1,003		—	1,003
Total short-term investments - available for sale	\$	1,003	\$	5,298	\$	—	\$ 6,301
Forward purchase or (sale) contracts:							
Japanese Yen	\$	—	\$	(2)	\$	—	\$ (2)
New Taiwan Dollar		—		(12)		—	(12)
Korean Won		—		48		—	48
Euro		—		158		—	158
British Pound		—		(33)		—	(33)
Chinese Renminbi		—		(1)		—	(1)
Singapore Dollar		—		1		—	1
Total forward contracts	\$	—	\$	159	\$	—	\$ 159
Deferred compensation plan assets:*							
Mutual funds and exchange traded funds	\$	2,316	\$	—	\$	—	\$ 2,316
Money market securities		785		—		—	785
Total deferred compensation plan assets	\$	3,101	\$	—	\$	—	\$ 3,101

April 2, 2016	Level 1	Level 2	Level 3	Total
Cash equivalents:				
Money market securities	\$ 4,643	\$ —	\$ —	\$ 4,643
Commercial paper	—	12,140	—	12,140
Total cash equivalents	\$ 4,643	\$ 12,140	\$ —	\$ 16,783
Short term investments - available for sale:				
U.S. treasury fund	\$ 1,003	\$ —	\$ —	\$ 1,003
Commercial paper	—	997	—	997
Government agencies	—	13,252	—	13,252
Total short-term investments - available for sale	\$ 1,003	\$ 14,249	\$ —	\$ 15,252
Forward purchase or (sale) contracts:				
Japanese Yen	\$ —	\$ (31)	\$ —	\$ (31)
New Taiwan Dollar	—	5	—	5
Korean Won	—	129	—	129
Euro	—	(367)	—	(367)
Chinese Renminbi	—	(1)	—	(1)
Singapore Dollar	—	20	—	20
Total forward contracts	\$ —	\$ (245)	\$ —	\$ (245)
Deferred compensation plan assets:*				
Mutual funds and exchange traded funds	\$ 1,916	\$ —	\$ —	\$ 1,916
Money market securities	588	—	—	588
Total deferred compensation plan assets	\$ 2,504	\$ —	\$ —	\$ 2,504

*These investments represent assets held in trust for the deferred compensation plan

For Level 1 assets, the Company utilized quoted prices in active markets for identical assets.

For Level 2 assets, exclusive of forward contracts, the Company utilized quoted prices in active markets for similar assets. For forward contracts, spot prices at December 31, 2016 and April 2, 2016 were utilized to calculate fair values.

During the first three quarters of 2017 and 2016, there were no transfers between Level 1, 2 or 3 assets.

Investments

The Company's investments at December 31, 2016 and April 2, 2016 were as follows (in thousands):

	Cost	Unrealized		Fair Value
		Gain	Loss	
December 31, 2016				
Available-for-sale securities (current):				
Government agencies	\$ 1,003	\$ —	\$ —	\$ 1,003
Commercial paper	15,491	—	—	15,491
Total investments (current)	\$ 16,494	\$ —	\$ —	\$ 16,494
Available-for-sale securities (non-current):				
Mutual funds, exchange traded funds and money market securities*	\$ 3,046	\$ 55	\$ —	\$ 3,101
Total investments (non-current)	\$ 3,046	\$ 55	\$ —	\$ 3,101
	Cost	Unrealized		Fair Value
		Gain	Loss	
April 2, 2016				
Available-for-sale securities (current):				
Commercial paper	\$ 13,137	\$ —	\$ —	\$ 13,137
Government agencies	13,247	5	—	13,252
Total investments (current)	\$ 26,384	\$ 5	\$ —	\$ 26,389
Available-for-sale securities (non-current):				
Mutual funds, exchange traded funds and money market securities*	\$ 2,507	\$ —	\$ (3)	\$ 2,504
Total investments (non-current)	\$ 2,507	\$ —	\$ (3)	\$ 2,504

*These investments represent assets held in trust for the deferred compensation plan

For purposes of determining gross realized gains and losses and reclassification out of accumulated other comprehensive income (loss), the cost of securities sold is based on specific identification. Net unrealized holding gains and losses on current available-for-sale securities included in accumulated other comprehensive income (loss) were insignificant as of December 31, 2016 and April 2, 2016 .

5. Business Acquisitions

Fiscal 2017

On August 1, 2016, the Company acquired all of the outstanding shares of Visicon Technologies, Inc. (Visicon), a leading supplier of high-accuracy and high-throughput measurement and defect detection systems based in Napa, California. The consideration under the merger agreement is subject to adjustment for indebtedness, seller's transaction expenses, working capital and other items.

Based on estimated closing working capital and other adjustments, the Company paid \$2.0 million in cash and expects to issue 637,082 shares of ESI common stock, valued at approximately \$4.5 million . The value of the common stock is based on the closing price of stock on August 1, 2016. Of the expected shares to be issued in connection with the agreement, 33,143 shares, adjusted for working capital changes, are expected to be reserved in escrow to serve as a source of payment for any purchase price adjustments or indemnity claims by the Company. The sellers have contractually agreed to limitations on the sale of the shares of common stock they receive in connection with the sale of Visicon; specifically, no shares can be sold for six months following closing, after which point twenty five percent of the shares each stockholder receives can be sold in each of the following four three-month periods. The shares issued as a part of this merger represent a non-cash investing activity of \$4.5 million .

[Table of Contents](#)

As of the reporting date, the Company has not completed the valuation of assets acquired and liabilities assumed. The amounts presented below represent provisional amounts based on best estimates utilizing information available to-date. In the absence of better information, amounts presented represent the carrying value of the item as of the acquisition date. These provisional amounts may be revised once the fair value of the associated assets acquired and liabilities assumed is finalized. The total estimated purchase price of \$6.5 million, net of cash acquired, was allocated to the underlying assets acquired and liabilities assumed based on estimated fair value, as shown in the following table:

(In thousands)	
Accounts receivable	\$ 391
Inventory	2,056
Prepaid expense and other current assets	116
Property, plant and equipment	642
Acquired intangibles	3,300
Goodwill	1,907
Other assets	26
Accounts payable and other accrued liabilities	(1,952)
Total purchase price, net of cash acquired	<u>\$ 6,486</u>

The acquisition is expected to provide the Company with a portfolio of standalone defect detection systems for the medical device and consumer electronics markets. In addition to a standalone product portfolio and associated value streams, the Company believes the acquisition will provide complementary technology for integrated verification of laser machining, expand its presence into the medical device market, present an opportunity for enhanced vertical integration and result in synergies with the Company's current consumer electronics customer base. Products acquired in the Visicon acquisition are included in the Micromachining segment due to the complementary nature of the sales process and customer base.

The value of goodwill has not been finalized as the valuation of assets acquired and liabilities assumed is not yet complete. None of the goodwill is expected to be deductible for tax purposes. The acquired intangible assets consisted primarily of approximately \$2 million of developed technology and identified intangible assets are expected to be amortized over their useful lives of one to six years.

In connection with the acquisition of Visicon, the Company is consolidating Visicon operations with ESI operations, and streamlining manufacturing and development activities between Napa and existing ESI locations. The Company expects to incur total costs approximating \$1.2 million in connection with these integration activities. Approximately \$0.5 million in integration costs were incurred through the third quarter of 2017. These costs are included in Selling, general and administrative expenses in the Condensed Consolidated Statements of Operations, and include transaction fees, travel costs, employee severance and other related costs.

The operating results of the acquired entity are included in the Company's results of operations since the date of acquisition. Pro forma financial information has not been provided for the acquisition of Visicon as it is not material to the Company's operations and financial position.

Fiscal 2015

On January 15, 2015, the Company acquired all of the outstanding shares of Wuhan Topwin Optoelectronics Technology Co., Ltd. (Topwin), a Chinese manufacturer of laser-based systems for \$7.6 million in cash and 748,944 shares of ESI common stock issuable over a three year period, valued at approximately \$2.9 million as of the acquisition date. Out of the \$2.9 million in equity, one-half, or 374,472 shares, is contingent-based consideration and one-half, or 374,472 shares, is non-contingent and will be issued over a three year period beginning June 30, 2015. The contingent consideration is based on future performance of Topwin, as evaluated against targets for net income for each year over a three year period. One-third of the contingent shares will be issued after each year if the target is met for that year. However, failing to meet stated targets will result in none of the contingent shares being issued for that year. As of the acquisition date, the fair value of 374,472 shares of contingent consideration was estimated to be \$0.4 million and the fair value of 374,472 shares of non-contingent consideration was estimated to be \$2.5 million. The fair value of the non-contingent and contingent shares to be issued over the three year period was determined based on the estimated share price as of the issuance date derived through Monte Carlo simulation, discounted back to the acquisition date. The value of the contingent shares included an estimate of the probability of attainment of the net income targets. Analysis supporting the purchase price allocation included a valuation of assets and liabilities as of the closing date, an analysis of intangible assets and a detailed review of the opening balance sheet to determine other significant adjustments required to recognize assets and liabilities at fair value. Through the third quarter of 2017, zero and 212,217 shares of ESI common stock have been issued in connection with contingent and non-contingent consideration under the purchase agreement, respectively.

Additionally, the Company agreed to issue, on the same terms described above, up to approximately 513,328 shares valued at \$2.0 million, which, together with cash amounts of \$0.2 million, is treated as compensation to an employee in the Company who was also a former shareholder of Topwin. The compensation expense was to be recognized over a three year period. From acquisition through the third quarter of fiscal 2017, the Company has recognized \$1.4 million in share-based compensation expense related to this agreement. From acquisition through the third quarter of fiscal 2017, zero and 145,427 shares of ESI common stock have been issued in connection with contingent and non-contingent components of compensation expense, respectively.

The total purchase price of approximately \$10.5 million, net of cash acquired, was allocated to the underlying assets acquired and liabilities assumed based on their fair values, as shown in the following table:

(In thousands)		
Accounts receivable, net of allowances of \$268	\$	454
Inventory		544
Prepaid expense and other current assets		295
Property, plant and equipment		23
Acquired intangibles		3,618
Goodwill		7,445
Accounts payable and other accrued liabilities		(1,859)
Total purchase price, net of cash acquired	\$	<u>10,520</u>

The acquisition is expected to enable the Company to gain entry into the low total-cost-of-ownership solutions market in China and the goodwill of approximately \$7.4 million recognized as a result of the acquisition was assigned to the Topwin reporting unit. The premium paid over the fair value of the individual assets acquired and liabilities assumed reflects the Company's view that this acquisition was the result of a competitive bid process and has provided the Company with innovative design and manufacturing capabilities for laser-based manufacturing solutions across a variety of complementary applications, together with direct access to local China market, supply chain and opto-electronics knowledge center. None of the goodwill is expected to be deductible for tax purposes.

As a result of the acquisition, the Company recorded approximately \$4.9 million of identifiable assets, including \$3.6 million of identifiable intangible assets and \$1.9 million of identifiable liabilities. The acquired intangible assets consisted primarily of \$3.5 million of developed technology to be amortized over their useful lives, which range from one to ten years.

In the first three quarters of 2017 the Company did not incur any Topwin acquisition-related costs while it incurred approximately \$194 thousand in the first three quarters of 2016; these costs are included in Selling, general and administrative expenses in the Condensed Consolidated Statements of Operations. The operating results of this acquisition are included in the Company's results of operations since the date of acquisition. Pro forma financial information has not been provided for the acquisition of Topwin as it is not material to the Company's operations and overall financial position.

In the first quarter of 2017, the Company entered into an agreement with former Topwin shareholders to settle claims against withheld shares. Pursuant to the purchase agreement and the subsequent settlement agreement, the Company's obligation to issue shares with a future issuance date, which served as a source of indemnification, was terminated, representing the effective recovery of 63,114 shares. At the date of recovery the shares had a closing price of \$6.30 per share and an original fair value of \$446 thousand. As a result, the withheld shares which were initially accounted for as stock compensation were deemed to have forfeited in the first quarter of 2017 and those shares representing contingent consideration and included as a component of purchase price were accounted for within equity. This subsequent recovery of shares issuable under the agreement represented a non-cash investing and financing activity.

In the second quarter of 2017, as a result of this same settlement agreement, all cash amounts held in escrow were released to the Company, representing the recovery of \$430 thousand, slightly less than the original cash escrow of \$450 thousand due to exchange rate losses. As a result of this recovery, amounts previously recognized as compensation costs were reversed in the current period and those amounts included as a component of purchase price were recognized as a non-operating gain in the second quarter of 2017, and classified accordingly on the statement of cash flows. The purchase price of Topwin was not adjusted for either the stock or cash escrow recoveries as the measurement period for purchase price accounting related to this acquisition had lapsed prior to the recovery of these amounts.

6. Inventories

Inventories are principally valued at standard cost, which approximates the lower of cost or market on a first-in, first-out basis. Components of inventories were as follows:

(In thousands)	December 31, 2016	April 2, 2016
Raw materials and purchased parts	\$ 40,405	\$ 38,957
Work-in-process	14,196	14,270
Finished goods	4,229	7,243
	<u>\$ 58,830</u>	<u>\$ 60,470</u>

7. Trade Accounts Receivable

Trade accounts receivable consisted of the following:

(In thousands)	December 31, 2016	April 2, 2016
Current trade accounts receivable, net	\$ 27,644	\$ 42,770
Non-current trade accounts receivable	90	320
	<u>\$ 27,734</u>	<u>\$ 43,090</u>

Non-current trade accounts receivable are included in Other assets in the Condensed Consolidated Balance Sheets.

8. Other Current Assets

Other current assets consisted of the following:

(In thousands)	December 31, 2016	April 2, 2016
Prepaid expenses	\$ 3,411	\$ 2,747
Value added tax receivable	1,538	1,353
Other	954	1,240
	<u>\$ 5,903</u>	<u>\$ 5,340</u>

Included in "Other" Other current assets are non-trade receivables and other similar items.

9. Other Assets

Other assets consisted of the following:

(In thousands)	December 31, 2016	April 2, 2016
Consignment and demo equipment, net	\$ 11,130	\$ 7,242
Long term deposits	2,627	2,543
Non-current trade accounts receivable, net	90	320
Other non-current assets	3,178	2,521
	<u>\$ 17,025</u>	<u>\$ 12,626</u>

Depreciation expense for demo and leased equipment totaled \$0.1 million in the third quarter of 2017 and \$0.2 million in the third quarter of 2016 . For the three fiscal quarters ended December 31, 2016 depreciation expense for demo and leased equipment totaled \$0.3 million compared to \$0.4 million for the three fiscal quarters ended January 2, 2016 .

Included in "Other" Other assets are long-term investments and other similar items.

10. Accrued Liabilities (Current) & Other Liabilities (Non-current)

Accrued liabilities (current) consisted of the following:

<u>(In thousands)</u>	<u>December 31, 2016</u>	<u>April 2, 2016</u>
Payroll-related liabilities	\$ 4,860	\$ 5,717
Product warranty accrual	4,136	3,666
Customer deposits	2,364	1,731
Purchase order commitments and receipts	1,256	2,588
Professional fees payable	914	1,052
Restructuring costs payable	620	757
Other current liabilities	1,865	2,823
	<u>\$ 16,015</u>	<u>\$ 18,334</u>

Included in other current liabilities above are accrued amounts for value-added taxes, income taxes, freight, and other similar items.

Other liabilities (non-current) consisted of the following:

<u>(In thousands)</u>	<u>December 31, 2016</u>	<u>April 2, 2016</u>
Deferred compensation	\$ 3,101	\$ 2,504
Product warranty accrual	775	2,068
Other non-current liabilities	2,209	3,229
	<u>\$ 6,085</u>	<u>\$ 7,801</u>

Other non-current liabilities include long-term deferred revenue, income taxes payable, long-term deposits and other similar items.

11. Product Warranty

The following is a reconciliation of the changes in the aggregate product warranty accrual:

<u>(In thousands)</u>	<u>Fiscal quarter ended</u>		<u>Three fiscal quarters ended</u>	
	<u>December 31, 2016</u>	<u>January 2, 2016</u>	<u>December 31, 2016</u>	<u>January 2, 2016</u>
Product warranty accrual, beginning	\$ 5,521	\$ 4,451	\$ 5,734	\$ 3,342
Warranty charges incurred, net	(1,674)	(2,057)	(4,988)	(5,604)
Provision for warranty charges	1,064	2,292	4,165	6,948
Product warranty accrual, ending	<u>\$ 4,911</u>	<u>\$ 4,686</u>	<u>\$ 4,911</u>	<u>\$ 4,686</u>

Net warranty charges incurred include labor charges and costs of replacement parts for system repairs under warranty. These costs are recorded net of any estimated cost recoveries resulting from either successful repair of damaged parts or from warranties offered by the Company's suppliers for defective components. The provision for warranty charges reflects the estimate of future anticipated net warranty costs to be incurred for all products under warranty at quarter end and is recorded to cost of sales. Of the total of \$4.9 million in product warranty accrual at December 31, 2016, \$0.8 million is non-current and is included in Other liabilities on the Condensed Consolidated Balance Sheets.

12. Deferred Revenue

Generally, revenue is recognized upon fulfillment of acceptance criteria at the Company's factory and transfer of risk and title. Revenue is deferred whenever title transfer is pending, risk has not transferred, and/or acceptance criteria have not yet been fulfilled. Deferred revenue arises from, among other factors, sales to Japanese customers, shipments of substantially new products and shipments with custom specifications and acceptance criteria where the Company cannot demonstrate a track record of acceptance. For sales involving multiple element arrangements, the relative selling price of any undelivered elements, including installation services and similar items, is deferred until the elements are delivered and acceptance criteria are met. Revenue related to maintenance and service contracts is deferred and recognized ratably over the duration of the contracts.

The following is a reconciliation of the changes in deferred revenue:

(In thousands)	Fiscal quarter ended		Three fiscal quarters ended	
	December 31, 2016	January 2, 2016	December 31, 2016	January 2, 2016
Deferred revenue, beginning	\$ 11,583	\$ 12,662	\$ 7,685	\$ 12,376
Revenue deferred	9,075	13,868	28,547	47,459
Revenue recognized	(9,440)	(18,822)	(25,014)	(52,127)
Deferred revenue, ending	\$ 11,218	\$ 7,708	\$ 11,218	\$ 7,708

Of the total of \$11.2 million in deferred revenue at December 31, 2016, \$0.4 million is non-current and is included in Other liabilities on the Condensed Consolidated Balance Sheets.

13. Commitments & Contingencies

The Company is party to a loan and security agreement ("Loan Agreement") with Silicon Valley Bank, which was initially entered into on March 20, 2015 and amended on July 12, 2016. The Loan Agreement provides for a senior secured asset-based revolving credit facility (the "Credit Facility") with up to \$30 million available on a revolving basis, including a \$15 million sublimit for letters of credit. The credit agreement expires March 20, 2018. At December 31, 2016, the Company had no revolving loans or letters of credit outstanding under the Credit Facility, was in compliance with all covenants, and was not in default under the Loan Agreement. The commitment fee on the amount of unused credit was 0.3 percent. In the fourth quarter of 2017, the Company amended and extended by one year this credit agreement. As amended, the credit agreement allows for a greater level of EBITDA losses over the next 12 months, but reduces the level of permitted acquisitions and purchases of capital equipment. Please see [Note 18 "Subsequent Events"](#).

The Company mitigates credit risk by transacting with highly rated counterparties for foreign exchange contracts, letters of credit and other transactions where counterparty risk is a factor. The Company has evaluated the non-performance risks associated with the Company's lenders and other parties and believe them to be insignificant.

From time to time the Company may be party to litigation arising in the normal course of business. Currently, the Company is not party to any litigation it believes would have a material adverse effect on the Company's financial position, results of operations or cash flows.

14. Earnings (Loss) Per Share

The following is a reconciliation of weighted average shares outstanding used in the calculation of basic and diluted earnings (loss) per share:

(In thousands, except per share data)	Fiscal quarter ended		Three fiscal quarters ended	
	December 31, 2016	January 2, 2016	December 31, 2016	January 2, 2016
Net loss	\$ (9,693)	\$ (4,586)	\$ (19,486)	\$ (14,210)
Weighted average shares used for basic earnings per share	32,919	31,495	32,379	31,355
Weighted average shares used for diluted earnings per share	32,919	31,495	32,379	31,355
Net loss per share:				
Basic	\$ (0.29)	\$ (0.15)	\$ (0.60)	\$ (0.45)
Diluted	\$ (0.29)	\$ (0.15)	\$ (0.60)	\$ (0.45)

Awards of options, SARs and RSUs representing an additional 2.8 million and 2.9 million shares of stock for the third quarter of 2017 and 2016, respectively, and 2.5 million and 2.6 million shares of stock for the three fiscal quarters of 2017 and 2016, respectively, were not included in the calculation of diluted net earnings per share because their effect would have been antidilutive.

15. Segment and Geographic Information

Operating segments are defined as components of an enterprise about which separate financial information is available that is evaluated regularly by the chief operating decision maker, or decision making group, in deciding how to allocate resources and in assessing performance. The chief operating decision maker ("CODM") is the Company's Chief Executive Officer. The Company currently operates in two segments, Component Processing and Micromachining. Included within Component Processing are interconnect products, semiconductor products and component test products. The interconnect, semiconductor and component test products are sold primarily to manufacturers of electronic components and are used to drill, cut, trim, ablate, test and mark features that improve the yield or functionality of the component. Micromachining products are sold primarily to manufacturers of end devices across multiple industries and are used primarily to drill, cut or mark features on a variety of materials, generally on the casing or external surface of the end device. In addition, micromachining products tend to serve markets that require fewer features, less stringent design requirements, and lower cost. Products acquired in the Visicon acquisition are included in the Micromachining segment due to the complementary nature of the sales process and customer base. The Company uses U.S. GAAP for segment reporting, consistent with the accounting policies of the consolidated entity.

Segment disclosures are presented to the gross profit level as this is the primary performance measure for which segment management is responsible. Corporate and other charges include amortization of acquired intangible assets, stock-based compensation, restructuring and other costs. Selling, general and administrative and other operating expenses are managed at the functional and corporate levels, and because allocation to the market segments would be arbitrary and because this level of information is not used by the CODM, have not been allocated to the market segments. See the consolidated statements of operations for reconciliations from gross profit to income before taxes. These reconciling items are not included in the measure of profit and loss for each reportable segment.

In the quarter ended July 2, 2016, the Company revised the method it uses to determine segment gross margin amounts used by the CODM. Previously the profit on lasers (or more specifically, the difference between an estimated third-party purchase price of a similar laser and the cost for the Company to produce these lasers) was associated with only a single segment where the internal lasers were primarily employed or expected to be employed. However, with recent introduction of new products, certain of the Company's internal lasers are now used in both the Component Processing and Micromachining segments. The change in method was made to refine the allocation of profit to the segments given this new dynamic consistent with the information used by the CODM, and to ensure that the margin associated with the use of internal lasers is reflected in the profit of the segment generating the third-party sale. No revisions to segment gross margins were made retrospectively as the changes were deemed immaterial.

Net sales by segment were as follows:

(In thousands)	Fiscal quarter ended		Three fiscal quarters ended	
	December 31, 2016	January 2, 2016	December 31, 2016	January 2, 2016
Component Processing	\$ 28,084	\$ 37,511	\$ 96,952	\$ 108,549
Micromachining	5,695	5,831	14,153	24,356
	<u>\$ 33,779</u>	<u>\$ 43,342</u>	<u>\$ 111,105</u>	<u>\$ 132,905</u>

Gross profits by segment were as follows:

(In thousands)	Fiscal quarter ended		Three fiscal quarters ended	
	December 31, 2016	January 2, 2016	December 31, 2016	January 2, 2016
Component Processing	\$ 11,234	\$ 17,969	\$ 45,004	\$ 45,466
Micromachining	415	1,482	262	8,617
Corporate and other	(201)	(1,730)	(2,030)	(2,564)
	<u>\$ 11,448</u>	<u>\$ 17,721</u>	<u>\$ 43,236</u>	<u>\$ 51,519</u>

Net sales by geographic area, based on the location of the end user, were as follows:

(In thousands)	Fiscal quarter ended		Three fiscal quarters ended	
	December 31, 2016	January 2, 2016	December 31, 2016	January 2, 2016
Asia	\$ 26,015	\$ 33,278	\$ 92,184	\$ 103,843
Americas	6,210	7,589	11,464	20,750
Europe	1,554	2,475	7,457	8,312
	<u>\$ 33,779</u>	<u>\$ 43,342</u>	<u>\$ 111,105</u>	<u>\$ 132,905</u>

16. Restructuring and Cost Management Plans

Chelmsford

In March 2015, as a part of the plan to streamline manufacturing and development activities, the Company initiated a restructuring plan that included the closure of the assembly plant and development center located in Chelmsford, Massachusetts, which was part of the Component Processing segment. The original estimated completion date of the plan was the end of fiscal 2016 at a total estimated pre-tax cost of \$ 5.5 million .

There were \$297 thousand of restructuring payments related to the above mentioned restructuring plan in the first three quarters of 2017 . Since the inception of the plan, \$5.8 million in restructuring costs have been recognized. The plan was effectively complete as of the end of the fourth quarter of 2016. Included in these costs were write-offs of leasehold improvements associated with the abandoned manufacturing facility, employee severance and related payments, and other wind-down costs. The Company expects to pay the remaining costs and accrued expenses related to the leased facility by December 2019, which is the end of the lease term.

At December 31, 2016 and April 2, 2016 , the amount of unpaid restructuring costs included in accrued liabilities for all plans was \$0.5 million and \$0.8 million , respectively.

The following table presents the amounts related to restructuring costs payable (in thousands):

Restructuring & cost management amounts payable as of April 2, 2016	\$	757
Employee severance and related benefits:		
Cash payments		(297)
Restructuring & cost management amounts payable as of December 31, 2016	\$	<u>460</u>

17. Shareholders' Equity

Share Repurchase Program

In December 2011, the Board of Directors authorized a share repurchase program totaling \$20.0 million to acquire shares of the Company's outstanding common stock. The repurchases are to be made at management's discretion in the open market or in privately negotiated transactions in compliance with applicable securities laws and other legal requirements and are subject to market conditions, share price and other factors. The Company did not repurchase any shares during the first three quarters of 2017 or 2016 . There is no fixed completion date for the repurchase program.

18. Subsequent Events

Facility Mortgage Agreement

On January 9, 2017, ESI Leasing, LLC ("ESI Leasing"), a wholly owned subsidiary of the Company, entered into a loan agreement (the "Loan Agreement") with First Technology Federal Credit Union (the "Lender"). The Loan Agreement provides for a term loan from the Lender to ESI Leasing in the principal amount of \$14 million (the "Loan"). The interest rate of the Loan is fixed at 4.75% per annum, except that it may be increased if certain covenants under the Loan Agreement are not satisfied and after and during the continuation of an "Event of Default" as defined in the Loan Agreement. The Loan amortizes over a period of approximately 20 years, but the maturity date of the loan is January 1, 2027 , meaning that, if ESI Leasing does not prepay or refinance the Loan, a significant portion of the principal of the Loan will become due on January 1, 2027. ESI Leasing will pay monthly principal and interest payments on the Loan totaling annual amounts of \$1.1 million .

Loan and Security Agreement with Silicon Valley Bank

In the fourth quarter of 2017, the Company amended and extended by one year this credit agreement. As amended, the credit agreement allows for a greater level of EBITDA losses over the next 12 months, but reduces the level of permitted acquisitions and purchases of capital equipment.

Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations

The statements contained in this report that are not statements of historical fact, including without limitation, statements containing the words “believes”, “expects”, “projects”, “anticipates” and similar words, constitute forward-looking statements that are subject to a number of risks and uncertainties. From time to time we may make other forward-looking statements. Investors are cautioned that such forward-looking statements are subject to an inherent risk that actual results may materially differ as a result of many factors, including the risks described in Part II, Item 1A “Risk Factors.”

Overview of Business

Electro Scientific Industries, Inc. and its subsidiaries (ESI) is a leading supplier of innovative laser-based micro-manufacturing solutions for industries reliant on microtechnologies. ESI's integrated solutions allow industrial designers and process engineers to control the power of laser light to transform materials in ways that differentiate their consumer electronics, wearable devices, semiconductor circuits and high-precision components for market advantage. Founded in 1944, ESI is headquartered in Portland, Oregon, with global operations and subsidiaries in Asia, Europe and North America.

Laser microfabrication is comprised of a set of precise micron-level processes, including drilling, scribing, dicing, singulation, cutting, ablating, trimming, and precision marking on multiple types of materials. These processes require application-specific laser systems that are able to meet our customers' exacting performance and productivity requirements. Our laser-based systems are utilized in the production of consumer electronics, flexible and rigid printed circuit boards, semiconductor devices, advanced semiconductor packaging, electronic sensors, touch-panel glass, flat panel liquid crystal displays (LCDs) and other high value components and devices to enable functionality, increase performance and improve production yields.

Additionally, we produce high-capacity test and inspection equipment that is critical to the quality control process during the production of multilayer ceramic capacitors (MLCCs). Our equipment ensures that each component meets the electrical and physical tolerances required to perform properly.

In the second quarter of 2017, ESI acquired Visicon Technologies, Inc. (Visicon), which brings a portfolio of standalone defect detection systems for the medical device and consumer electronics markets to ESI's current product solutions.

The third quarter of 2017 ended December 31, 2016 and the second quarter of 2017 ended October 1, 2016 were both 13-week periods while the third quarter of 2016 ended January 2, 2016 was a 14-week period. Similarly, the three quarters ended December 31, 2016 consisted of a 39-week period compared to a 40-week period for the three quarters ended January 2, 2016 .

Summary of Sequential Quarterly Results

Third Quarter 2017 Ended December 31, 2016 Compared to Second Quarter 2017 Ended October 1, 2016 .

The financial results for the third quarter of 2017 reflected a sequential improvement in our order volume with total orders of \$44.1 million , compared to \$28.0 million in the second quarter of 2017. By segment, orders for Component Processing (CP) increased significantly due to orders for flex via drilling products and Allegro TM component test product systems. Micromachining (MM) segment orders increased modestly due to additional orders for defect detection products from our Visicon acquisition.

Total net sales increased from \$29.7 million in the second quarter of 2017 to \$33.8 million in the third quarter of 2017. CP segment net sales increased by \$2.3 million from \$25.7 million in the second quarter of 2017 to \$28.1 million in the third quarter of 2017 , primarily due to increased revenues for Interconnect (IC) products for both flex circuit and IC package via drilling systems. Sales for the third quarter included the first CornerStone TM system sale, where customer acceptance was received during the quarter. These increases were offset by lower Semiconductor Product sales of wafer mark and wafer trim products. MM segment net sales increased by \$1.8 million from \$3.9 million in the second quarter of 2017 to \$5.7 million in the third quarter of 2017 , primarily due to increased Visicon defect detection system sales, higher sales of laser ablation systems and laser products, partially offset by lower service sales due to continued decline in service base.

Gross profit was \$11.4 million , with gross margins of 33.9% , in the third quarter of 2017 compared to gross profit of \$11.0 million , with gross margin of 37.0% , in the second quarter of 2017 . Gross profit remained fairly consistent on increased net sales. Gross margins were impacted negatively by increases in other cost of sales charges, which included inventory expense, timing of laser repair charges and material cost variances.

Operating expenses of \$21.5 million in the third quarter of 2017 represent an increase of \$0.6 million from \$20.9 million in the second quarter of 2017. Selling, general and administrative (SG&A) expenses increased \$0.5 million to \$13.3 million, primarily due to increased share-based compensation expense due to higher number of grants compared to the second quarter of 2017 and having a full quarter of expenses related to the Visicon acquisition. Research, development and engineering (RD&E) expenses increased \$0.1 million, primarily related to a full quarter of Visicon expenses.

The Company had an operating loss of \$10.1 million in the third quarter of 2017 compared to an operating loss of \$9.9 million in the second quarter of 2017.

The benefit from income taxes was \$0.3 million in the third quarter of 2017 compared to no impact from income taxes in the second quarter of 2017. The change in income taxes was due primarily to a credit related to the expiration of statute of limitations on an uncertain tax position. In October 2016, the Company obtained a waiver from the Singapore tax authority, confirming the retention of benefits enjoyed through June 2016. The Company has applied for a 5-year extension through June 2021 of its Singapore Pioneer incentive, which is conditioned upon meeting certain business conditions. The Company believes it is likely that this extension will be granted and it will continue to receive the associated tax incentives.

Net loss was \$9.7 million in both the third quarter of 2017 and the second quarter of 2017.

Third Quarter 2017 Ended December 31, 2016 Compared to Third Quarter 2016 Ended January 2, 2016

Results of Operations

The following table presents results of operations data as a percentage of net sales:

	Fiscal quarter ended	
	December 31, 2016	January 2, 2016
Net sales	100.0 %	100.0 %
Cost of sales	66.1	59.1
Gross profit	33.9	40.9
Selling, general and administrative	39.3	28.8
Research, development and engineering	23.3	17.9
Acquisition and integration costs	0.1	—
Restructuring costs	1.0	4.5
Operating loss	(29.8)	(10.3)
Interest and other income, net	0.1	0.1
Total non-operating income	0.1	0.1
Loss before income taxes	(29.7)	(10.2)
(Benefit from) provision for income taxes	(1.0)	0.4
Net loss	(28.7)%	(10.6)%

Net Sales

The following table presents net sales information by product group:

	Fiscal quarter ended			
	December 31, 2016		January 2, 2016	
	Net Sales	% of Net Sales	Net Sales	% of Net Sales
(In thousands, except percentages)				
Component Processing				
Interconnect Products (IP)	\$ 15,987	47.3%	\$ 22,824	52.6%
Semiconductor Products (SP)	6,690	19.8	11,384	26.3
Component Test Products (CTP)	5,407	16.0	3,303	7.6
	\$ 28,084	83.1%	\$ 37,511	86.5%
Micromachining				
Micromachining Products (MP)	\$ 5,695	16.9%	\$ 5,831	13.5%
Net Sales	\$ 33,779	100.0%	\$ 43,342	100.0%

Net sales for the third quarter of 2017 decreased \$9.6 million or 22.1% from net sales for the third quarter of 2016 . By segment, net sales in CP decreased by 25.1% and MM decreased by 2.3% .

CP segment net sales for the third quarter of 2017 decreased \$9.4 million compared to the third quarter of 2016 . The decrease in CP net sales was driven by lower sales of our flex via drilling systems, a \$3.8 million decrease due to one-time sales of legacy memory repair systems in the third quarter of 2016 which did not repeat, and a \$2.4 million decrease in service sales. Flex via drilling sales fell due to low order levels during the second quarter of 2017, which caused backlog to be very low entering into the third quarter of 2017. These decreases were partially offset by a \$2.4 million increase in sales of MLCC testing systems.

MM segment net sales for the third quarter of 2017 decreased \$0.1 million compared to the third quarter of 2016 . The decrease was primarily due to lower follow on demand for our micromachining systems and lower service sales. These decreases were almost offset by increased sales of Visicon systems and sales of laser products.

The following table presents net sales information by geographic region:

(In thousands, except percentages)	Fiscal quarter ended			
	December 31, 2016		January 2, 2016	
	Net Sales	% of Net Sales	Net Sales	% of Net Sales
Asia	\$ 26,015	77.0%	\$ 33,278	76.8%
Americas	6,210	18.4	7,589	17.5
Europe	1,554	4.6	2,475	5.7
Net Sales	\$ 33,779	100.0%	\$ 43,342	100.0%

Net sales to Asia decreased by 21.8% or \$7.3 million primarily due to decreased service sales and lower flex via drilling product sales. Net sales to Americas and Europe were impacted by lower flex via drilling product sales.

Gross Profit

(In thousands, except percentages)	Fiscal quarter ended			
	December 31, 2016		January 2, 2016	
	Gross Profit	% of Net Sales	Gross Profit	% of Net Sales
Component Processing	\$ 11,234	40.0 %	\$ 17,969	47.9 %
Micromachining	415	7.3	1,482	25.4
Corporate and other	(201)	(0.6)	(1,730)	(4.0)
Gross Profit	\$ 11,448	33.9 %	\$ 17,721	40.9 %

Gross profit was \$11.4 million for the third quarter of 2017 , a decrease of \$6.3 million compared to \$17.7 million in the third quarter of 2016 . The gross profit decrease was primarily driven by lower net sales and production volumes and increased service costs due to higher contract material usage, partially offset by lower warranty charges.

Gross margin for the CP segment decreased from 47.9% to 40.0% primarily due to less favorable absorption of fixed costs on lower systems production and lower sales of legacy memory repair systems. These were partially offset by decrease in warranty charges. MM segment gross margins decreased from 25.4% to 7.3% primarily due to less favorable absorption of fixed costs on lower systems production and higher contract material usage in the third quarter of 2017 associated with service sales.

Corporate and other cost of sales include expenses not allocated to our two operating segments, including stock compensation, amortization of intangibles, restructuring and other expense. Third quarter of 2016 charges included a \$1.4 million write-off of inventory associated with a discontinued large-format glass cutting product.

Operating Expenses

(In thousands, except percentages)	Fiscal quarter ended			
	December 31, 2016		January 2, 2016	
	Expense	% of Net Sales	Expense	% of Net Sales
Selling, general and administrative	\$ 13,280	39.3%	\$ 12,468	28.8%
Research, development and engineering	7,868	23.3	7,778	17.9
Acquisition and integration costs	31	0.1	—	—
Restructuring costs	321	1.0	1,944	4.5
Operating Expenses	\$ 21,500	63.6%	\$ 22,190	51.2%

Selling, general and administrative

Selling, general and administrative (SG&A) expenses primarily consist of labor and other employee-related expenses including share-based compensation expense, travel expenses, professional fees, sales commissions and facilities costs. SG&A expenses for the third quarter of 2017 increased \$0.8 million compared to the third quarter of 2016. The increase is comprised of \$1.0 million in share-based compensation expense due to higher grant date fair value in 2017 compared to 2016, higher overall grants in 2017 and due to Visicon operating expenses incurred during the third quarter of 2017. Partially offsetting these was a \$0.4 million decrease in professional fees, employee variable pay and lower overall expenses due to not having an additional week of expenses in the third quarter of 2017 compared to 2016.

Research, Development and Engineering

Research, development and engineering (RD&E) expenses primarily comprise labor and other employee-related expenses including share-based compensation expense, professional fees, project materials costs, equipment costs and facilities costs. RD&E expenses for the third quarter of 2017 increased \$0.1 million compared to the third quarter of 2016, primarily due to Visicon operating expenses incurred in the third quarter of 2017.

Acquisition and Integration Costs

Acquisition and integration costs of \$31 thousand in 2017 consisted mainly of legal and travel expenses associated with the acquisition and integration of Visicon, which was acquired during the second quarter of 2017 (see [Note 5 "Business Acquisitions"](#)).

Restructuring and cost management plans

During the fourth quarter of 2015, we initiated restructuring plans to consolidate and shift our manufacturing activities to Asia and other cost reduction actions. The \$1.9 million of restructuring costs in 2016 relate primarily to the labor charges for the closure of the Chelmsford, Massachusetts manufacturing plant associated with these restructuring plans. We ceased our use of that facility in 2016.

Non-operating Income and Expense

(In thousands, except percentages)	Fiscal quarter ended			
	December 31, 2016		January 2, 2016	
	Interest and Other (Expense) Income, net	% of Net Sales	Interest and Other (Expense) Income, net	% of Net Sales
Interest and other income, net	\$ 34	0.1%	\$ 67	0.1%
Total non-operating income	\$ 34	0.1%	\$ 67	0.1%

Non-operating income and expense consists of interest income and expense, market gains and losses on assets held in employees' deferred compensation accounts, realized and unrealized foreign exchange gains and losses, bank charges, investment management fees, and other miscellaneous non-operating items. Net non-operating income was \$34 thousand in the third quarter of 2017 and \$67 thousand in the third quarter of 2016.

Income Taxes

(In thousands, except percentages)	Fiscal quarter ended			
	December 31, 2016		January 2, 2016	
	Income Tax Benefit	Effective Tax Rate	Income Tax Provision	Effective Tax Rate
(Benefit from) provision for income taxes	\$ (325)	3.2%	\$ 184	(4.2)%

The income tax benefit for the third quarter of 2017 was \$325 thousand on pretax loss of \$10.0 million, an effective tax rate of 3.2%. For the third quarter of 2016, the income tax provision was \$184 thousand on pretax loss of \$4.4 million, an effective rate of (4.2)%. The change in provision for taxes primarily relates to the release of \$324 thousand in benefit on credits from the expiration of the statute on uncertain tax positions and the mix of income between foreign jurisdictions.

Three Quarters Ended December 31, 2016 Compared to Three Quarters Ended January 2, 2016

Results of Operations

The following table presents results of operations data as a percentage of net sales:

	Three fiscal quarters ended	
	December 31, 2016	January 2, 2016
Net sales	100.0 %	100.0 %
Cost of sales	61.1	61.2
Gross profit	38.9	38.8
Selling, general and administrative	35.0	28.3
Research, development and engineering	20.9	18.6
Acquisition and integration costs	0.3	0.1
Restructuring costs	0.3	2.0
Operating loss	(17.7)	(10.2)
Interest and other income, net	0.1	0.1
Total non-operating income	0.1	0.1
Loss before income taxes	(17.5)	(10.2)
Provision for income taxes	0.1	0.5
Net loss	(17.5)%	(10.7)%

Net Sales

The following table presents net sales information by product group:

(In thousands, except percentages)	Three fiscal quarters ended			
	December 31, 2016		January 2, 2016	
	Net Sales	% of Net Sales	Net Sales	% of Net Sales
Component Processing				
Interconnect Products (IP)	\$ 60,432	54.4%	\$ 64,969	48.9%
Semiconductor Products (SP)	21,521	19.4	29,288	22.0
Component Test Products (CTP)	14,999	13.5	14,292	10.8
	\$ 96,952	87.3%	\$ 108,549	81.7%
Micromachining				
Micromachining Products (MP)	\$ 14,153	12.7%	\$ 24,356	18.3%
Net Sales	\$ 111,105	100.0%	\$ 132,905	100.0%

Net sales for the first three quarters of 2017 decreased \$21.8 million or 16.4% from net sales for the first three quarters of 2016. By segment, net sales in CP decreased by \$11.6 million or 10.7% and net sales in MM decreased by \$10.2 million or 41.9%.

CP segment net sales for the first three quarters of 2017 decreased primarily due to \$5.9 million in lower service sales due to smaller service base and a \$5.7 million decrease in flex via drilling and memory repair system sales.

The decrease in MM net sales for the first three quarters of 2017 compared to the first three quarters of 2016 was primarily due to lower follow-on demand for our micromachining systems and related service, as compared to relatively strong demand in 2016. This was partially offset by an increase due to system sales related to our Visicon acquisition.

The following table presents net sales information by geographic region:

(In thousands, except percentages)	Three fiscal quarters ended			
	December 31, 2016		January 2, 2016	
	Net Sales	% of Net Sales	Net Sales	% of Net Sales
Asia	\$ 92,184	83.0%	\$ 103,843	78.1%
Americas	11,464	10.3	20,750	15.6
Europe	7,457	6.7	8,312	6.3
Net Sales	\$ 111,105	100.0%	\$ 132,905	100.0%

Net sales in Asia decreased to \$92.2 million in the first three quarters of 2017, a decrease of \$11.7 million compared to \$103.8 million in the first three quarters of 2017 primarily due to lower service sales and lower flex via drilling and micromachining system sales. Americas decreased to \$11.5 million in the first three quarters of 2017, a decrease of \$9.3 million compared to \$20.8 million in the first three quarters of 2017. This was primarily due to lower flex via drilling system sales, lower service sales and lower memory repair system sales.

Gross Profit

(In thousands, except percentages)	Three fiscal quarters ended			
	December 31, 2016		January 2, 2016	
	Gross Profit	% of Net Sales	Gross Profit	% of Net Sales
Component Processing	\$ 45,004	46.4 %	\$ 45,466	41.9 %
Micromachining	262	1.9	8,617	35.4
Corporate and other	(2,030)	(1.8)	(2,564)	(1.9)
Gross Profit	\$ 43,236	38.9 %	\$ 51,519	38.8 %

Gross profit was \$43.2 million for the first three quarters of 2017, a decrease of \$8.3 million compared to the first three quarters of 2016. Gross profit decreased primarily due to lower net sales and production volumes. Gross margin was 38.9% and 38.8% for the first three quarters of 2017 and 2016, respectively. Gross margins in 2017 were impacted by less favorable absorption of fixed costs on lower systems production and lower sales of legacy memory repair systems. Gross margins in 2016 were impacted negatively by a \$1.4 million write-off of inventory associated with a discontinued large-format glass cutting product.

Operating Expenses

(In thousands, except percentages)	Three fiscal quarters ended			
	December 31, 2016		January 2, 2016	
	Expense	% of Net Sales	Expense	% of Net Sales
Selling, general and administrative	\$ 38,917	35.0%	\$ 37,619	28.3%
Research, development and engineering	23,258	20.9	24,706	18.6
Acquisition and integration costs	366	0.3	194	0.1
Restructuring costs	321	0.3	2,597	2.0
Operating Expenses	\$ 62,862	56.6%	\$ 65,116	49.0%

Selling, general and administrative

SG&A expenses primarily consist of labor and other employee-related expenses including share-based compensation expense, travel expenses, professional fees, sales commissions and facilities costs. SG&A expenses for the first three quarters of 2017 increased \$1.3 million compared to the first three quarters of 2016. This increase primarily relates to higher share-based compensation expense due to higher overall grants in 2017, related in part to the CEO transition, and due to accretive operating expenses related to the Visicon acquisition, both comprising a \$2.7 million increase. This increase was partially offset by a \$1.4 million decrease in consulting, travel, sales commissions and variable compensation expenses.

Research, Development and Engineering

RD&E expenses primarily comprise labor and other employee-related expenses including share-based compensation expense, professional fees, project materials costs, equipment costs and facilities costs. RD&E expenses for the first three quarters of 2017 decreased \$1.4 million compared to the first three quarters of 2016. This decrease was primarily driven by a \$0.9 million decrease in project material spending and consulting as NViant™ and CornerStone™ platforms moved to production, and a \$0.2 million decrease in variable compensation expenses.

Acquisition and Integration Costs

2017

Acquisition and integration costs consisted mainly of consulting, legal and travel expenses associated with the acquisition and integration of Visicon, which was acquired on August 1, 2016 (see [Note 5 "Business Acquisitions"](#)). The Visicon acquisition charges were partially offset by \$0.2 million of Topwin escrow cash settlement received in the second quarter of 2017.

2016

Acquisition and integration costs consisted mainly of consulting, legal and travel expenses associated with the acquisition and integration of Topwin Optoelectronics, which was acquired on January 15, 2015.

Restructuring Costs

During the fourth quarter of 2015, we initiated restructuring plans to consolidate and shift our manufacturing activities to Asia and other cost reduction actions. The \$2.6 million of restructuring costs in 2016 relate primarily to the charges for the closure of the Chelmsford, Massachusetts manufacturing plant associated with these restructuring plans. We ceased our use of that facility in 2016.

Non-operating Income and Expense

Non-operating income and expense, net, consists of interest income and expense, market gains and losses on assets held in employees' deferred compensation accounts, realized and unrealized foreign exchange gains and losses, bank charges, investment management fees, and other miscellaneous non-operating items, such as investment impairment.

Non-operating income and expense were as follows:

<i>(In thousands, except percentages)</i>	Three fiscal quarters ended			
	December 31, 2016		January 2, 2016	
	Non-Operating Income (Expense)	% of Net Sales	Non-Operating Income (Expense)	% of Net Sales
Interest and other income, net	\$ 162	0.1%	\$ 68	0.1%
Total non-operating income	\$ 162	0.1%	\$ 68	0.1%

Interest and other income (expense), net

Net interest and other income was \$162 thousand in the first three quarters of 2017 compared to \$68 thousand in the first three quarters of 2016. The change in non-operating income was primarily due to the recovery of escrow funds related to the Topwin acquisition in 2017. This benefit was partially offset by foreign exchange losses primarily attributable to the weakened British pound and timing of hedges for Japan shipments.

Income Taxes

<i>(In thousands, except percentages)</i>	Three fiscal quarters ended			
	December 31, 2016		January 2, 2016	
	Income Tax Provision	Effective Tax Rate	Income Tax Provision	Effective Tax Rate
Provision for income taxes	\$ 22	(0.1)%	\$ 681	(5.0)%

The income tax provision for the first three quarters of 2017 was \$22 thousand on pretax loss of \$19.5 million, an effective tax rate of (0.1)%. For the first three quarters of 2016, the income tax provision was \$0.7 million on pretax loss of \$13.5 million, an effective rate of (5.0)%. The change in provision for taxes relates to the decrease in projected annual income in 2017 and the mix of income between foreign jurisdictions.

Financial Condition and Liquidity

At December 31, 2016, our principal sources of liquidity were cash and cash equivalents of \$44.9 million, short-term investments of \$6.3 million, accounts receivable of \$27.7 million and up to \$30.0 million from our credit facility. At December 31, 2016, we had a current ratio of 3.58 and had no long-term debt outstanding. Working capital of \$106.4 million decreased \$20.3 million compared to the April 2, 2016 balance of \$126.7 million, impacted negatively by operating losses. Total cash, cash equivalents, and investments decreased \$5.9 million as compared to April 2, 2016. Additionally, we note that after third quarter ended December 31, 2016, the Company entered into a loan agreement for \$14.0 million; see [Note 18 "Subsequent Events"](#).

Sources and Uses of Cash

Net cash provided by operating activities of \$0.3 million for the three quarters ended December 31, 2016 was primarily a result of a \$19.5 million net loss adjusted for non-cash items of \$12.1 million, offset by changes in working capital. Working capital changes consisted primarily of a \$15.3 million decrease in accounts receivables due to lower business levels and improved collections, partially offset by a \$5.2 million decrease in accounts payable due to overall lower purchase volumes and timing of inventory receipts, as well as a \$3.3 million increase in inventories.

For the three quarters ended December 31, 2016, net cash provided by investing activities of \$2.8 million was primarily due to \$8.3 million of net sales of investments offset by \$3.4 million of capital expenditures for purchases of property, plant and equipment and disbursements of \$2.0 million for the acquisition of Visicon.

For the three quarters ended December 31, 2016, net cash provided by financing activities of \$0.2 million related to issuances from employee stock plans, net of payments of associated withholding taxes.

We believe that our existing cash, cash equivalents and short-term investments are adequate to fund our operations and contractual obligations for at least the next twelve months.

Critical Accounting Policies and Estimates

Except for the added policy below, we reaffirm the "Critical Accounting Policies and Estimates" in Part II Item 7 Management's Discussion and Analysis of Financial Condition and Results of Operations reported in our Form 10-K for the year ended April 2, 2016.

Acquisition Accounting

The fair value of the consideration exchanged in an acquisition is allocated to tangible assets and identifiable intangible assets acquired and liabilities assumed at acquisition date fair value. Goodwill is measured as the excess of the consideration transferred over the net fair value of identifiable assets acquired and liabilities assumed. The accounting for an acquisition involves a considerable amount of judgment and estimation. Cost, income, market or a combination of approaches may be used to establish the fair value of consideration exchanged, assets acquired and liabilities assumed, depending on the nature of those items. The valuation approach is determined in accordance with generally accepted valuation methods or other generally accepted methods. Key areas of estimation and judgment may include projections of future performance, cost of capital, market characteristics, cost structure, impacts of synergies, and estimates of terminal value, among others.

While the Company uses best estimates and assumptions as part of the purchase price allocation process to estimate the value of assets acquired and liabilities assumed, estimates are inherently uncertain and subject to refinement. During the measurement period, which may be up to one year from the acquisition date, the Company may record adjustments to the assets acquired and liabilities assumed, with a corresponding offset to goodwill, to the extent that adjustments are identified to the preliminary purchase price allocation. Upon conclusion of the measurement period, or final determination of the value of the assets acquired and liabilities assumed, whichever comes first, any subsequent adjustments are recorded to results from operations. Refer to Note 5, "Business Acquisitions" of Notes to Condensed Consolidated Financial Statements for further discussion of purchase accounting, valuation methodology and assumptions.

Item 3. Quantitative and Qualitative Disclosures about Market Risk

There have been no material changes in the market risk disclosure contained in our Form 10-K for the year ended April 2, 2016 .

Item 4. Controls and Procedures

Attached to this quarterly report as exhibits 31.1 and 31.2 are the certifications of our President and Chief Executive Officer (CEO) and our Chief Financial Officer (CFO) required by Section 302 of the Sarbanes-Oxley Act of 2002 (the Section 302 Certifications). This portion of our quarterly report on Form 10-Q is our disclosure of the conclusions of our management regarding the effectiveness of our disclosure controls and procedures as of the end of the period covered by this report based on management's evaluation of those disclosure controls and procedures. This disclosure should be read in conjunction with the Section 302 Certifications for a more complete understanding of the topics presented.

Disclosure Controls and Procedures

Our management has evaluated, under the supervision and with the participation of our CEO and CFO, the effectiveness of our disclosure controls and procedures as of the end of the period covered by this report pursuant to Rule 13a-15(b) under the Securities Exchange Act of 1934, as amended (Exchange Act). Based on that evaluation, our CEO and CFO have concluded that, as of the end of the period covered by this report, our disclosure controls and procedures are effective in ensuring that information required to be disclosed in our Exchange Act reports is (1) recorded, processed, summarized and reported in a timely manner, and (2) accumulated and communicated to our management, including our CEO and CFO, as appropriate to allow timely decisions regarding required disclosure.

Changes in Internal Control Over Financial Reporting

There has been no change in our internal control over financial reporting during the third quarter of 2017 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

PART II - OTHER INFORMATION

Item 1. Legal Proceedings

In the ordinary course of business, we are involved in various legal matters, either asserted or unasserted, and investigations. In the opinion of management, ultimate resolution of these matters will not have a material effect on our consolidated financial position, results of operations or cash flows.

Item 1A. Risk Factors

The statements contained in this report that are not statements of historical fact, including without limitation statements containing the words "believes", "expects", "projects", "anticipates" and similar words, constitute forward-looking statements that are subject to a number of risks and uncertainties. From time to time, we may make other forward-looking statements. Investors are cautioned that such forward-looking statements are subject to an inherent risk that actual results may differ materially. The following information highlights some of the factors that could cause actual results to differ materially from the results expressed or implied by our forward-looking statements. Forward-looking statements should be considered in light of these factors. Factors that may result in such variances include, but are not limited to, the following:

Risks Related to Our Competition and Customers

Volatility of Our Customers' Industries and Capital Spending

Our business is dependent upon the capital expenditures of manufacturers of microelectronics, PCB's, semiconductors, computers, wireless communications and other electronic products. The capital equipment market for microelectronics, semiconductor, and consumer electronics manufacturers has historically been characterized by sudden and severe cyclical variations in product supply and demand due to a number of factors including capacity utilization, timing of customers' new product introductions and demand for their products, inventory levels relative to demand and access to affordable capital. The timing, severity and duration of these market cycles are difficult or impossible to predict. As a result, business levels can vary significantly from quarter to quarter or year to year. Significant volatility in investment cycles in the market for microelectronics, PCB's and semiconductors used in electronic devices or in the market for consumer electronics reduce demand for our products and may materially and adversely affect our business, financial condition and results of operations given the relative fixed cost structure of our business and need to continually invest in product technology and to support and service our products. For example, beginning in the first quarter of fiscal 2017 we began to experience a significant decline in orders due to reduced demand from PCB manufacturers. The degree of the impact of any downturn on our business depends on a number of factors, including: the strength of the global economies, particularly those of Asia and the United States; the overall level of demand for consumer electronics products; the stability of global financial systems; and the overall health of the microelectronics, semiconductor, and consumer electronics industries.

Expansion into New Markets

Our future success depends in large part on our successful penetration of new markets adjacent to our existing markets and of the Chinese market for lower cost systems. These markets are new to us and our success is dependent on our displacing entrenched competitors who are familiar with these markets and are known to customers. In many cases we are attempting to penetrate these new markets with newly introduced products which are not yet proven in the industry. In addition, in some cases we will need to develop or expand our sales channels and customer relationships in order to execute on this strategy. There is no assurance that we will be successful in penetrating these new markets significantly or at all. If we fail to successfully penetrate these markets our business, financial condition and results of operations could be materially and adversely affected.

Highly Competitive Markets

We face substantial competition from established competitors throughout the world, some of which have greater financial, engineering, manufacturing and marketing resources than we do. Those competitors with greater resources may, in addition to other things, be able to better withstand periodic downturns, compete more effectively on the basis of price and technology, or more quickly develop enhancements to, and new generations of, products that compete with the products we manufacture and market. New companies may enter the markets in which we compete, or industry consolidation may occur, further increasing competition in those markets. We have also experienced new entrants to our markets offering aggressive price and payment terms in an attempt to gain market share. Some competitors, particularly in China, also develop low cost products employing processes or technology developed by us. In addition, because we price our products in U.S. dollars, a strong U.S. dollar can make our products less price-competitive outside of the United States to products priced in other currencies. We believe that to be competitive we must continue to expend significant financial resources in order to, among other things, invest in new product development and enhancements. We may not be able to compete successfully in the future and increased competition may result in price reductions, reduced profit margins and loss of market share.

Revenues are Largely Dependent on Few Customers

We depend on a few significant customers for a large portion of our revenues. In 2016, our top ten customers accounted for approximately 51% of total net sales. We anticipate that sales of our products to a relatively small number of customers will continue to account for a significant portion of our revenues. Consolidation between customers, changes in technologies or solutions used by customers, changes in products manufactured by customers or in end-user demand for those products, selection of suppliers other than us, customer bankruptcies or customer departures from their respective industries all may result in even fewer customers accounting for a high percentage of our revenue and reduced demand from any single major customer. Also, business levels with several of our top customers are dependent on our winning new designs and features each product cycle, and there is no guarantee of future business based on past design wins. Furthermore, none of our customers have any long-term obligation to continue to buy our products or services and may therefore delay, reduce or cease ordering our products or services at any time. The cancellation, reduction or deferral of purchases of our products by even a single customer could significantly reduce our revenues in any particular quarter. If we were to lose any of our significant customers or suffer a material reduction in their purchase orders, revenue could decline and our business, financial condition and results of operations could be materially and adversely affected.

Increased Price Pressure

We have experienced and continue to experience pricing pressure in the sale of our products, from both competitors and customers. Pricing pressures typically have become more intense during cyclical downturns when competitors seek to maintain or increase market share, reduce inventory or introduce more technologically advanced products or lower cost products. In addition, we may agree to pricing concessions or extended payment terms with our customers in connection with penetrating new markets, volume orders or to improve cost of ownership in highly competitive applications. Our business, financial condition, margins or results of operations may be materially and adversely affected by competitive pressure and price-based competition.

Revenues are Largely Based on the Sale of a Small Number of Product Units

We derive a substantial portion of our revenue from the sale of a relatively small number of products. Accordingly, our revenues, margins and other operating results could fluctuate significantly from quarter to quarter depending upon a variety of factors in addition to those described above, including:

- changes in the timing of orders and terms or acceptance of product shipments by our customers;
- changes in the mix of products and services that we sell;
- timing and market acceptance of our new product introductions; and
- delays or problems in the planned introduction of new products, or in the performance of any such products following delivery to customers.

As a result of these risks, we believe that quarter-to-quarter comparisons of our revenue and operating results may not be meaningful, and that these comparisons may not be an accurate indicator of our future performance.

Risks Related to Our Supply Chain and Production

Variability of Production Capacity

To meet rapidly changing demand in the industries we serve, we must effectively manage our resources and production capacity. During periods of decreasing demand for our products, we must be able to appropriately align our cost structure with prevailing market conditions and effectively manage our supply chain. Our ability to rapidly and effectively reduce our cost structure in response to such downturns is limited by the fixed nature of many of our expenses in the near term and by our need to continue our investment in product technology and to support and service our products. Conversely, when upturns occur in the markets we serve, we may have difficulty rapidly and effectively increasing our manufacturing capacity or procuring sufficient materials to meet sudden increases in customer demand that could result in the loss of business to our competitors and harm to our relationships with our customers. In addition, our new manufacturing capability with the acquisition of Topwin in China has not been proven at the high volumes we anticipate for that facility. If we are not able to timely and appropriately adapt to changes in our business environment, our business, financial condition or results of operations may be materially and adversely affected.

Reliance on Critical Suppliers

We use a wide range of components from numerous suppliers in the manufacture of our products, including custom electronic, laser, optical and mechanical components. We generally do not have guaranteed supply arrangements with our suppliers. We seek to reduce the risk of production and service interruptions and shortages of key parts by selecting and qualifying alternative suppliers for key parts, monitoring the financial stability of key suppliers and maintaining appropriate inventories of key parts. Although we make reasonable efforts to ensure that parts are available from multiple suppliers, some key parts are available only from a single supplier or a limited group of suppliers in the short term. In addition, some of the lasers we use in our products are difficult to manufacture, and as a result we may not receive an adequate supply of lasers in a timely fashion to fill orders. Operations at our suppliers' facilities are subject to disruption or discontinuation for a variety of reasons, including changes in business relationships, competitive factors, financial difficulties, work stoppages, fire, natural disasters or other causes. Any such disruption or discontinuation to our suppliers' operations could interrupt or reduce our manufacturing activities and delay delivery of our products, any or all of which could materially and adversely affect our results of operations. In addition, when markets recover from economic downturns, there is a heightened risk that one or more of our suppliers may not be able to meet our increased demand requirements, adversely impacting our ability to fulfill orders and win business with our customers.

Utilization of Contract Manufacturers

We have arrangements with contract manufacturers to complete the manufacturing of certain of our product subcomponents. Any significant interruption in our contract manufacturers' ability to provide manufacturing services to us as a result of contractual disputes with us or another party, labor disruptions, financial difficulties, natural disasters, delay or interruption in the receipt of inventory, customer prioritization or other causes could result in reduced manufacturing capabilities or delayed deliveries for certain of our products, any or all of which could materially and adversely affect our results of operations.

Charges for Excess or Obsolete Inventory

One factor on which we compete is the ability to ship products on schedules required by customers. In order to facilitate timely shipping, management forecasts demand, both in type and amount of products, and these forecasts are used to determine inventory to be purchased. We also order materials based on our technology roadmap, which represents management's assessment of technology that will be utilized in new products that we develop. Certain types of inventory, including lasers and optical equipment, are particularly expensive and may only be used in the production of a single type of product. If actual demand is lower than forecast with respect to the type or amount of products actually ordered, or both, our inventory levels may increase. As a result, there is a risk that we may have to incur material accounting charges for excess and obsolete inventory if inventory cannot be used, which would negatively affect our financial results. Also, if we alter our technology or product development strategy, we may have inventory that may not be usable under the new strategy, which may also result in material accounting charges. For example, during 2016, we recorded approximately \$1.4 million of charges in cost of sales for inventory written off associated with discontinued products.

Uncertainties Resulting from Regulations Regarding Components

Many countries, including the United States and those in the European Union and China, have implemented directives that restrict the sale of new electrical and electronic equipment containing certain hazardous substances, and require a disclosure if certain metals used in products are not from a conflict free source. The directives could restrict our ability to sell our products in certain countries and affect sourcing at competitive prices and availability in sufficient quantities of certain minerals used in the manufacture of our products. In addition, our reputation could be harmed if we are required to disclose that metals in our products are not from conflict free sources.

Risks Related to Our Organization

Operating a Global Business

International shipments accounted for 90% of net shipments in 2016, with 83% of our net shipments to customers in Asia. We expect that international shipments will continue to represent a significant percentage of net sales in the future. We also have significant foreign operations, including manufacturing facilities in Singapore and China, research and application development facilities in Canada, France, China and Korea, and sales and service offices in various countries. Under our globalization strategy, we intend to increase our foreign operations in the future. Our non-U.S. sales, purchases and operations are subject to risks inherent in conducting business abroad, many of which are outside our control, including the following:

- periodic local or geographic economic downturns and unstable political conditions;
- price and currency exchange controls;
- fluctuation in the relative values of currencies;
- difficulty in repatriating money, whether as a result of tax laws or otherwise;
- difficulties protecting intellectual property;
- compliance with labor laws and other laws governing employees;
- local labor disputes;
- shipping delays and disruptions;
- changes in trading policies, regulatory requirements, tariffs and other barriers, or the termination or renegotiation of existing trade agreement;
- impact of changes in immigration or other policies impacting our ability to attract, hire, and retain key talent; and
- difficulties in managing a global enterprise, including staffing, collecting accounts receivable, and managing suppliers, distributors and representatives.

Our business and operating results could also be impacted, directly or indirectly, by natural disasters, outbreaks of infectious disease, military action, international conflicts, terrorist activities, civil unrest and associated political instability and policy changes. Many of our facilities, including our Portland, Oregon headquarters, are in areas with known earthquake risk. Some of these events or circumstances may also result in heightened security concerns with respect to domestic and international travel and commerce, which may further affect our business and operating results. In particular, due to these uncertainties, we are subject to the following additional risks:

- recent and potential future tightening of immigration and travel controls may adversely affect the residence status of non-U.S. engineers and other key technical employees in our U.S. facilities, our ability to hire new non-U.S. employees in such facilities or our ability to bring our non-US employees into the U.S. for business related activities;
- more frequent instances of shipping delays;
- demand for our products may not increase or may decrease; and
- our customers or suppliers may experience financial difficulties or cease operations.

Implementation and Modification of Globalization Strategy

We are continuing to implement and expand our globalization strategy in which we are moving certain operational resources and capabilities to different countries in Asia to be closer to many of our significant customers to reduce costs and to develop low-cost follow-on solutions to our products. As part of this strategy, we opened a manufacturing facility in Singapore in 2010, which manufactures certain IP, MP, SP and CTP products and is now our primary system manufacturing facility. We also acquired Topwin, a Chinese manufacturer of laser-based systems, in January 2015 to gain entry into the low-cost solutions market in China. In 2016, we opened an applications development center in Korea in order to increase responsiveness and increase access to local customers.

We believe this strategy will enhance customer relationships, improve our responsiveness, reduce our manufacturing costs for certain products and allow us to compete with low-cost competitors, including those who develop systems employing processes developed by us.

Our globalization strategy is subject to a variety of complexities and risks, many of which may divert a substantial amount of management's time. These risks include:

- challenges in designing facilities that can be scaled for future expansion, replicating current processes and bringing new facilities up to full operation;
- unpredictable costs, redundancy costs and cost overruns for developing facilities and acquiring equipment;
- building local management teams, technical personnel and other staff for functions that we have not previously conducted outside of the United States;
- technical obstacles such as poor production or process yield and loss of quality control during the ramp of a new facility;
- re-qualifications and other procedures that may be required by our customers;
- our ability to bring up local suppliers to meet our quality and cycle-time needs;
- our ability to reduce costs in the United States as we add costs elsewhere;
- rapidly changing business conditions that may require plans to be changed or abandoned before they are fully implemented; and
- challenges posed by distance and by differences in language and culture.

These and other factors could delay the continuing development, expansion and implementation of our strategy, as well as impair our gross margins, delay shipments and deliveries, cause us to lose sales, require us to write off investments already made, damage our reputation and harm our business, financial condition and results of operations. If we decide to change our globalization strategy, we may incur charges for certain costs incurred. For example, the Company announced a restructuring plan in 2015 which led to the impairment of associated leasehold improvements and other assets for our Chelmsford facility. The estimated future liability associated with the lease commitments was accrued net of estimated sublease rental income. However, to the extent the property is vacated or payments are not made by the sub-lessee, the Company will incur the full amounts of the ongoing lease obligation.

Acquisitions and Divestitures

We may make acquisitions of, or significant investments in, other businesses with complementary products, services or technologies, such as our June 2012 acquisition of Eolite Systems, our May 2013 acquisition of the Semiconductor Systems business from GSI Group, Inc., our January 2015 acquisition of Topwin and our August 2016 acquisition of Visicon Technologies, Inc. Acquisitions involve numerous risks, many of which are unpredictable and beyond our control, including:

- difficulties and increased costs in connection with integration of personnel, operations, technologies and products of the acquired businesses;
- difficulties in implementation of our enterprise resource planning (ERP) system into the acquired company's operations;
- diversion of management's attention from other operational matters;
- the potential loss of key employees of the acquired company;
- lack of synergy or inability to realize expected synergies resulting from the acquisition;
- the inability to successfully enter new markets expected to result from the acquisition;
- acquired assets becoming impaired as a result of technological advancements or worse-than-expected performance by the acquired company;
- difficulties establishing satisfactory internal controls and accounting practices at the acquired company;
- difficulties implementing internal manufacturing processes at the acquired company;
- risks related to the culture, language, and local practices of the acquired company;
- risks and uncertainties relating to the performance of the combined company following the transaction; and
- acquiring unanticipated liabilities for which we will not be indemnified.

Furthermore, the accounting for an acquisition could result in significant charges resulting from amortization or write-off of intangible assets and goodwill we acquire. Our inability to effectively manage these risks or lower levels of revenue, profitability or cash flows for acquired businesses and assets could result in our inability to realize the anticipated benefits of an acquisition on a timely basis, or at all, and materially and adversely affect our business, financial condition and results of operations. In addition, all acquisition transaction costs must be expensed as incurred rather than capitalized, which may have a material adverse effect on our results of operations.

The means by which we finance an acquisition may also significantly affect our business or the value of the shares of our common stock. If we issue common stock to pay for an acquisition, the ownership percentage of our existing shareholders will be diluted and the value of the shares held by our existing shareholders could be reduced. If we use cash on hand to pay for an acquisition, the payment could significantly reduce the cash that would be available to fund our operations or to use for other purposes. If we borrow funds in connection with an acquisition, we would be required to use cash to service the debt and to comply with financial and other covenants.

Security Breaches

We store sensitive data, including intellectual property, our proprietary business information and that of our customers, suppliers and business partners, and personally identifiable information of our employees, on our networks. The secure maintenance and transmission of this information is critical to our operations and business strategy. Despite our security measures, our information technology and infrastructure may be vulnerable to attacks by hackers or breached due to employee error, malfeasance or other actions. Any such breach could compromise our networks and the information stored there could be accessed, publicly disclosed, lost or stolen. Any such access, disclosure or other loss of information could result in legal claims or proceedings, liability under laws that protect the privacy of personal information, disrupt our operations and damage our reputation, which could adversely affect our business, revenues and competitive position.

Hiring and Retention of Personnel

Our continued success depends in part upon the services of our key managerial, financial and technical personnel. The loss of key personnel, or our inability to attract, assimilate and retain qualified personnel, could result in the loss of customers, inhibit our ability to operate and grow our business and otherwise have a material adverse effect on our business and results of operations. We have previously had to, and may in the future have to, impose salary reductions on employees during economic downturns in an effort to maintain our financial position. On several occasions in recent years executives and other employees have received limited or no annual bonuses due to our financial performance relative to the performance parameters in our annual bonus plans. These events may have an adverse effect on employee loyalty and may make it more difficult for us to attract and retain key personnel. Competition for qualified personnel in the industries and locations in which we compete for talent is intense, and we may not be successful in attracting and retaining qualified personnel. We may incur significant costs in our efforts to recruit and retain key personnel, which could affect our financial position and results of operations.

Our ability to retain key personnel and execute our strategy may also be adversely affected by the transition to a new CEO. On October 3, 2016 Michael Burger became our President and Chief Executive Officer, replacing Edward C. Grady, who held the position since 2014.

Risks Related to Technology

Markets Characterized by Rapid Technological Change

The markets for our products are characterized by rapid technological change and innovation, frequent new product introductions, changes in customer requirements and evolving industry standards. Our future performance will depend on the successful development, introduction and market acceptance of new and enhanced products that address technological changes and the requirements of current and potential customers. The development of new, technologically advanced products is a complex and uncertain process, requiring high levels of innovation and highly skilled engineering and development personnel, as well as the accurate anticipation of technological and market trends. We cannot assure you that we will be able to identify, develop, manufacture, market or support new or enhanced products successfully, if at all, or on a timely basis. The introduction by us or by our competitors of new or enhanced products, or alternative technologies, may cause our customers to defer, change or cancel orders for our existing products or cease purchasing our products altogether. Further, we cannot assure that our new products will gain timely market acceptance or that we will be able to respond effectively to product announcements by competitors, technology changes or emerging industry standards. If we are unable to develop new or enhanced products to address product or technology changes or new industry standards on a timely basis or at all, or if our new or enhanced products are not accepted by the market, or if our customers adopt alternative technologies, our business, financial condition and results of operations may be adversely affected.

Need to Invest in Research and Development

Our industry is characterized by the need for continued investment in research and development. Because of intense competition in the industries in which we compete, if we were to fail to invest sufficiently in research and development, our products could become less attractive to our current and potential customers or obsolete, and our business and financial condition could be materially and adversely affected. As a result of our need to maintain our spending levels in this area, our operating results could be materially harmed if our net sales decline. In addition, as a result of our emphasis on research and development and technological innovation, our operating costs may increase in the future, and research and development expenses may increase as a percentage of total operating expenses and as a percentage of net sales.

Need to Broaden our Marketing and Channel Capability

The laser microfabrication industry is comprised of broad set of markets and applications and represents significant opportunities for growth. In order to access these opportunities, we are broadening our approach from customer centric to market based. This will require the hiring, development, and application of new marketing capability and channel access. Our ability to successfully access and compete in these broader markets will be partially dependent on our development of these new skills, capabilities and customer relationships. Our inability to do so would harm our business and adversely affect our revenues and profitability.

Products are Highly Complex

Our products are highly complex, and our extensive product development, manufacturing and testing processes may not be adequate to detect all defects, errors, failures and quality issues that could impact customer satisfaction or result in claims against us. As a result, we may have to replace certain components or provide remediation in response to the discovery of defects in products after they are shipped. The occurrence of any defects, errors, failures or quality issues could result in cancellation of orders, product returns, diversion of our resources, legal actions by our customers and other losses to us or to our customers. These occurrences could also result in the loss of, or delay in, market acceptance of our products, loss of sales and increased expenses and warranty costs, which would harm our business and adversely affect our revenues and profitability.

Risks Related to Legal Matters

Protection of Proprietary Rights – Generally

Our success depends significantly upon the protection of our proprietary rights. We attempt to protect our proprietary rights through patents, copyrights, trademarks, maintenance of trade secrets and other measures, including entering into confidentiality agreements. We incur substantial costs to obtain and maintain patents and to defend our intellectual property rights. We rely upon the laws of the United States and foreign countries where we develop, manufacture or sell our products to protect our proprietary rights. We may not be successful in protecting these proprietary rights, these rights may not provide the competitive advantages that we expect, or other parties may challenge, invalidate or circumvent these rights.

Protection of Proprietary Rights – Foreign Jurisdictions

Our efforts to protect our intellectual property may be less effective in some foreign countries where intellectual property rights are not as well protected as in the United States. Many United States companies have encountered substantial problems in protecting their proprietary rights against infringement in foreign countries. If we fail to adequately protect our intellectual property in these countries, it could be easier for our competitors to sell competing products in foreign countries, which could result in reduced sales and gross margins.

Intellectual Property Infringement Claims

Several of our competitors hold patents covering a variety of technologies, applications and methods of use similar to some of those used in our products. While we attempt in our designs to avoid patent infringement, from time to time we and our customers have received correspondence from our competitors claiming that some of our products, as used by our customers, may be infringing one or more of these patents. Competitors or others have in the past and may in the future assert infringement claims against our customers or us with respect to current or future products or uses, and these assertions may result in costly litigation or require us to obtain a license to use intellectual property rights of others. If claims of infringement are asserted against our customers, those customers may seek indemnification from us for damages or expenses they incur.

If we become subject to infringement claims, we will evaluate our position and consider the available alternatives, which may include seeking licenses to use the technology in question or defending our position. These licenses, however, may not be available on satisfactory terms or at all. If we are not able to negotiate the necessary licenses on commercially reasonable terms or successfully defend our position, our financial condition and results of operations could be materially and adversely affected.

We also defend our patent and intellectual property portfolio. For example, we initiated litigation in 2014 against Humo Laboratory, LTD. in Japan and against Eo Technics Co., Ltd., in South Korea for infringement of key patents. There is no assurance that this litigation will be successful, and we may incur significant legal fees to prosecute these claims.

Tax Audits and Changes in Tax Law

We are periodically under audit by United States and foreign tax authorities and may have exposure to additional tax liabilities as a result. Significant judgment is required in determining our provision for income and other tax liabilities. Although we believe our tax estimates are reasonable, the final outcome of tax audits and the impact of changes in tax laws or the interpretation of tax laws could result in material differences from what is reflected in historical income tax accruals. If additional taxes are assessed as a result of an examination, a material effect on our financial results, tax positions or cash flows could occur in the period or periods in which the determination is made.

We previously benefited from a tax incentive program in Singapore pursuant to which we pay no Singapore income tax with respect to our manufacturing income. The incentive period ended on June 30, 2016. The Company has applied for a 5-year extension through June 2021 of its Singapore Pioneer incentive and believes it is likely that this extension will be granted and it will continue to receive the associated tax incentives. Although the Company has applied for an extension of benefits, there is no assurance that these benefits will be extended and this extension is conditioned on achieving certain business and investment levels. If the extension is not received or the Company does not achieve these criteria, we may lose the benefits of the advantageous tax provision.

Legal Proceedings

From time to time we are subject to various legal proceedings, including breach of contract claims and claims that involve possible infringement of patent or other intellectual property rights of third parties or by third parties. It is inherently difficult to assess the outcome of litigation matters, and there can be no assurance that we will prevail in any litigation. Any litigation could result in substantial cost and diversion of management's attention, which by itself could have a material adverse effect on our financial condition and results of operations. Further, adverse determinations in such litigation could result in loss of our property rights, subject us to significant liabilities, require us to seek licenses from others or prevent us from manufacturing or selling our products, any of which could materially adversely affect our business, financial condition, results of operations or cash flows.

Provisions Restricting Our Acquisition

Our articles of incorporation and bylaws contain provisions that could make it harder for a third party to acquire us without the consent of our Board of Directors. In addition, the Oregon Control Share Act and the Oregon Business Combination Act limit the ability of parties who acquire a significant amount of voting stock to exercise control over us. These provisions may have the effect of lengthening the time required for a person to acquire control of us through a proxy contest or the election of a majority of our Board of Directors, may deter efforts to obtain control of us and may make it more difficult for a third party to acquire us without negotiation. These provisions may apply even if the offer may be considered beneficial by our shareholders.

Risks Related to Financial Matters

Liquidity

We may require greater working capital to operate than similar size businesses in many other industries. As of December 31, 2016, we had working capital of \$106.4 million, including \$51.2 million in cash and short-term investments. In addition, on January 9, 2017, we borrowed \$14.0 million pursuant to a loan secured by our headquarters in Portland, Oregon. Our operating cash flows were negative for most quarters from September 2013 through March 2015 and for the quarter ending December 31, 2016 and could be negative again in future periods. If revenues were to grow, we would expect increased working capital needs for receivables and inventory.

As of April 2, 2016, we have permanently reinvested \$37.0 million of foreign earnings primarily related to manufacturing operations in Singapore and China (Topwin). The Company's net investment exposure in foreign subsidiaries translated into U.S. dollars using the period-end exchange rates at April 2, 2016 and March 28, 2015 was approximately \$56.9 million and \$64.3 million, respectively. The potential loss in fair value resulting from a hypothetical 10% adverse change in foreign exchange rates would be approximately \$5.7 million and \$6.4 million at April 2, 2016 and March 28, 2015, respectively. Foreign exchange rate gains or losses on foreign investments as of April 2, 2016 were reflected as a cumulative translation adjustment, net of tax, and do not affect the Company's results of operations.

While we have a credit facility in place, if we fail to meet the covenants in our credit facility, including a quick ratio and an EBITDA loss threshold measured on a trailing twelve month basis, access to the facility may be limited or the facility may become unavailable altogether. EBITDA losses, such as those experienced in the second quarter of 2017, negatively impact our ability to maintain compliance with these covenants. In the fourth quarter of 2017, the Company amended and extended by one

year this credit agreement. As amended, the credit agreement allows for a greater level of EBITDA losses over the next 12 months, but reduces the level of permitted acquisitions and purchases of capital equipment.

If we were to obtain financing by selling stock or convertible securities, the ownership of existing shareholders would be diluted. If we were to require additional liquidity and were unable to obtain financing with acceptable terms, or at all, our business and our ability to continue operations could be materially and adversely affected.

In addition, most of our contracts to acquire inventory represent purchase commitments. As a result, if we experience lower than anticipated demand for our products, in many cases we would not be able to avoid the cost of purchasing the associated inventory, which could negatively impact our results of operations and liquidity.

Indebtedness

In the fourth quarter of 2017, we incurred \$14.0 million of long-term indebtedness. This indebtedness is secured by our headquarters in Portland, Oregon. The loan amortizes over approximately twenty years, but the maturity date of the loan is January 1, 2027, meaning that, if we do not prepay or refinance the loan, a significant portion of the principal of the loan will become due on January 1, 2027. We are required to comply with certain financial covenants under the loan agreements, including maintaining a debt service coverage ratio and a specified level of certain types of liquid assets.

We also have a credit agreement under which we may borrow up to a maximum of \$30 million, subject to meeting certain availability requirements. This credit agreement is secured by our non-real estate assets. While nothing was outstanding under this agreement at February 5, 2017, the agreement does contain certain financial covenants and covenants limiting our discretion to make capital expenditures or acquisitions.

If we are unable to comply with the covenants in our debt agreements or make payments when due and the lender declares that an event of default has occurred, the outstanding indebtedness would likely be immediately due and owing and the collateral securing the debt could be foreclosed upon, which would have a material adverse effect on our business.

Unfavorable Currency Exchange Rate Fluctuations

Currency exchange rate fluctuations could have an adverse effect on our sales and results of operations and we could experience losses with respect to forward exchange contracts into which we may enter. Unfavorable currency fluctuations could require us to increase prices to foreign customers, which could result in lower net sales by us to those customers. Alternatively, if we do not adjust the prices for our products in response to unfavorable currency fluctuations, our results of operations could be materially and adversely affected. In addition, some of our foreign sales are denominated in the currency of the country in which these products are sold and the currency we receive in payment for such sales could be less valuable at the time of receipt as a result of exchange rate fluctuations. From time to time, we enter into forward exchange contracts to hedge the value of accounts receivable primarily denominated in euros and other currencies. However, we cannot be certain that our efforts will be adequate to protect us against significant currency fluctuations or that such efforts will not expose us to additional exchange rate risks, which could adversely affect our results of operations.

Fluctuations in Effective Tax Rate

As a global company, we are subject to taxation in the United States and numerous foreign jurisdictions. Our effective tax rate is subject to fluctuation from one period to the next because the income tax rates for each year are a function of many factors, including: (a) taxable income levels and the effects of a mix of profits (losses) earned by ESI and our subsidiaries in numerous tax jurisdictions with a broad range of income tax rates; (b) our ability to utilize deferred tax assets; (c) taxes, refunds, interest or penalties resulting from tax audits; (d) the magnitude of various credits and deductions as a percentage of total taxable income; (e) the ability to maintain our Pioneer Status in Singapore; and (f) changes in tax laws or the interpretation of such tax laws. In addition, we currently have a valuation allowance against domestic tax assets as a result of historic losses recorded in the United States. Changes in the mix of these items may cause our effective tax rate to fluctuate between periods, which could have a material adverse effect on our financial position and results of operations.

Impairment of Goodwill, Intangible and Long-Lived Assets

We held a total of \$9.6 million in acquired intangible assets, net of accumulated amortization, and \$9.4 million in goodwill at December 31, 2016, subject to adjustment for final purchase price allocation associated with the Visicon acquisition. Events may occur or circumstances change such that the carrying value is not recoverable or it becomes more likely than not that the fair value of long-lived assets is reduced below the carrying value of the reporting unit.

For example, in the fourth quarter of 2015 we realigned our products into two segments as a result of changes in our go-to-market strategies, common customer characteristics, and information utilized to manage our business. This reorganization required the Company to reassign goodwill to the new reporting units based on the relative fair value of the respective reporting units, and as a result we concluded that \$7.9 million of goodwill was impaired as of March 28, 2015.

We performed a review of our acquired definite-lived intangible assets in the fourth quarter of 2016, including a review for impairment based on certain triggering events and no significant impairments of intangible assets were identified, other than a \$0.4 million intangible associated with developed technology for our Topwin reporting unit. We performed our annual goodwill impairment analysis of the associated reporting unit and determined that the goodwill was not impaired. The estimated fair value of the Topwin reporting unit exceeded the carrying value of the reporting unit by approximately \$1.7 million or over 18%. We perform an annual impairment test of goodwill and acquired long-lived intangible assets in the fourth quarter of the fiscal year. The assessment of whether goodwill is impaired is sensitive to many financial and valuation assumptions, including projections of future performance, the determination of weighted average cost of capital, and estimates of terminal value. Our projections include assumptions regarding the adoption of new products, expected margins, and other factors, and a significant deterioration or deviation between expectations and actual performance may trigger impairment. For example, should the performance of our Topwin reporting unit not meet our expectations, impairment of goodwill associated with that reporting unit may be triggered, which could have a material impact on our business, financial condition and results of operations.

In addition, certain of our long-lived assets such as machinery and equipment may experience impairment as a result of such events as the introduction of new products, changes in technology or changes in customer demand patterns. We depreciate our machinery and equipment at levels we believe are adequate; however, there can be no assurance that there will not be a future impairment that could have a material impact on our business, financial condition and results of operations.

Stock Price Volatility

The market price of our common stock has fluctuated widely. During the third quarter of 2017, our stock price fluctuated between a high of \$6.49 per share and a low of \$4.62 per share. Consequently, the current market price of our common stock may not be indicative of future market prices, and we may be unable to sustain or increase the value of an investment in our common stock. Factors affecting our stock price, many of which are outside of our control, may include:

- variations in operating results from quarter to quarter;
- changes in earnings estimates by analysts or our failure to meet analysts' expectations;
- changes in the market price per share of our public company customers;
- market conditions in the consumer electronics, semiconductor and other industries into which we sell products;
- general economic conditions;
- political changes, hostilities or natural disasters;
- low trading volume of our common stock;
- the number of analysts covering our common stock;
- being added or removed from market indices;
- policies of institutional investors restricting or prohibiting investments in stock with a market price below certain thresholds;
- stock price volatility based on one or a few investors buying or selling a large number of shares over days or weeks, due to relatively low volumes of trading in our stock; and
- the number of firms making a market in our common stock.

In addition, the stock market has experienced significant price and volume fluctuations in recent years. These fluctuations have particularly affected the market prices of the securities of high-technology companies like ours. These market fluctuations could adversely affect the market price of our common stock.

Impairment of Investments

Our investment portfolio is primarily comprised of commercial paper, debt securities issued by U.S. governmental agencies and money market securities. These investments are intended to be highly liquid and low risk. If the markets for these securities were to deteriorate for any reason, including as a result of a downgrade in the credit rating of U.S. government securities, the liquidity and value of these investments could be negatively affected, which could result in impairment charges. Any such impairment charges may have a material impact on our financial condition and results of operations.

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

Effective internal controls are necessary for us to provide reliable financial reports and effectively prevent fraud. If we cannot provide reliable financial reports or prevent fraud, our operating results could be harmed.

In connection with our 2015 audit we identified material weaknesses in our internal control over financial reporting related to the accounting and disclosure of complex, judgmental accounting matters and non-routine transactions. The matters involving internal controls and procedures that our management considered to be material weaknesses included the risk assessment and certain process and review level controls associated with complex and non-routine transactions affecting goodwill, disclosures related to the Topwin acquisition, disclosures related to operating segments, and presentation of service revenue and associated cost of sales on the statements of operations. Management believes that it identified and implemented additional controls that remediated these material weaknesses by the end of 2016.

The requirements of Section 404 of the Sarbanes-Oxley Act are ongoing and also apply to future years. We expect that our internal control over financial reporting will continue to evolve as our business develops. Although we are committed to continue to improve our internal control processes and we will continue to diligently and vigorously review our internal control over financial reporting in order to ensure compliance with the Section 404 requirements, any control system, regardless of how well designed, operated and evaluated, can provide only reasonable, not absolute, assurance that its objectives will be met. Therefore, we cannot be certain that in the future additional material weaknesses or significant deficiencies will not exist or otherwise be discovered. If such weaknesses or deficiencies occur, they could result in misstatements of our results of operations, additional restatements of our consolidated financial statements, a decline in our stock price and investor confidence, or other material effects on our business, reputation, results of operations, financial condition or liquidity.

Item 4. Mine Safety Disclosures

Not Applicable.

Item 6. Exhibits

This list is intended to constitute the exhibit index.

3.1	Third Restated Articles of Incorporation, as amended. Incorporated by reference to Exhibit 3.1 of the Company's Annual Report on Form 10-K for the fiscal year ended April 3, 2010.
3.2	2009 Amended and Restated Bylaws, as amended. Incorporated by reference to Exhibit 3.1 of the Company's Current Report on Form 8-K filed on March 26, 2015
10.1	Time-Based Restricted Stock Unit Agreement between the Company and Michael Burger, dated as of October 3, 2016
31.1	Certification of the Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
31.2	Certification of the Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
32.1	Certification of Chief Executive Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
32.2	Certification of Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
101.INS	XBRL Instance Document *
101.SCH	XBRL Taxonomy Extension Schema Document *
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document *
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document *
101.LAB	XBRL Taxonomy Extension Label Linkbase Document *
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document *

* Pursuant to Rule 406T of Regulation S-T, these interactive data files are deemed not filed or part of a registration statement or prospectus for purposes of Sections 11 or 12 of the Securities Act of 1933 or Section 18 of the Securities and Exchange Act of 1934, and otherwise are not subject to liability under those sections.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: February 7, 2017

ELECTRO SCIENTIFIC INDUSTRIES, INC.

By: _____ /s/ Michael D. Burger

Michael D. Burger

President and Chief Executive Officer

(Principal Executive Officer)

By: _____ /s/ Paul Oldham

Paul Oldham

Senior Vice President of Administration, Chief Financial Officer and Corporate Secretary

(Principal Financial Officer)

**RESTRICTED STOCK UNITS
AWARD AGREEMENT**

This Award Agreement (the “Agreement”) is entered into as of October 3, 2016 by and between Electro Scientific Industries, Inc., an Oregon corporation (the “Company”), and Michael Burger (“Recipient”), for the grant of restricted stock units with respect to the Company’s Common Stock (“Common Stock”). By accepting this award Recipient agrees to be bound by the terms and conditions of this Agreement.

On August 18, 2016, the Compensation Committee of the Company’s Board of Directors (the “Committee”) made a restricted stock units award to Recipient outside of the Company’s 2004 Stock Incentive Plan (the “Plan”), with a grant date of October 3, 2016, and Recipient desires to accept the award subject to the terms and conditions of this Agreement.

IN CONSIDERATION of the mutual covenants and agreements set forth in this Agreement, the parties agree to the following.

1. Grant and Terms of Restricted Stock Units . The Company grants to Recipient 76,575 restricted stock units, subject to the adjustments, restrictions, terms and conditions set forth in this Agreement.

(a) *Rights under Restricted Stock Units.* A restricted stock unit (an “RSU”) represents the unsecured right to require the Company to deliver to Recipient one share of Common Stock for each RSU, subject to Section 1(c). The number of shares of Common Stock deliverable with respect to each RSU is subject to adjustment as determined by the Board of Directors of the Company as to the number and kind of shares of stock deliverable upon any merger, reorganization, consolidation, recapitalization, stock dividend, spin-off or other change in the corporate structure affecting the Common Stock generally.

(b) *Vesting and Delivery Dates.* The RSUs issued under this Agreement shall initially be 100% unvested and subject to forfeiture. Subject to this Section 1(b) and Section 1(c), the RSUs shall vest 25% annually on each of the first four anniversaries of the date of grant. The RSUs shall become vested on the vesting date only if Recipient continues to be an employee of the Company through such vesting date. The delivery date for a RSU shall be the date on which such RSU vests.

(c) *Payment before Vesting Date .*

(1) *Payment on Death or Total Disability .* If Recipient ceases to be an employee of the Company by reason of Recipient’s death or physical disability, outstanding but unvested RSUs shall become immediately vested in an amount determined by multiplying the total number of RSUs subject to this Agreement by a percentage calculated by dividing the number of whole months elapsed from the date of this Agreement to the date of termination of employment by 48 (the “Pro Rata Percentage”). The delivery date shall also accelerate. The term “total disability” means a medically determinable mental or physical impairment that is expected to

result in death or has lasted or is expected to last for a continuous period of 12 months or more and that, in the opinion of the Company and two independent physicians approved by the Company, causes Recipient to be unable to perform his or her duties as an employee, director, officer or consultant of the Company and unable to engage in any substantial gainful activity. Total disability shall be deemed to have occurred after both of the following have occurred:

(A) The two independent physicians have furnished their written opinion of total disability to the Company; and

(B) The Company has reached an opinion of total disability.

(2) *Acceleration on Normal Retirement.* After Recipient attains age 65, outstanding but unvested RSUs shall become vested each calendar year in an amount determined by multiplying the total number of RSUs subject to this Agreement by the Pro Rata Percentage as of the earlier of December 31 of the year or the date of Recipient's termination of employment. The delivery date shall also be accelerated.

(3) *Double Trigger Acceleration on Change in Control.*

(i) All of the RSUs shall immediately vest if a Change in Control (as defined below) occurs and at any time after the Change in Control and on or before the first anniversary of the Change in Control, (i) the Recipient's employment is terminated by the Company (or its successor) without Cause (as defined below), or (ii) the Recipient's employment is terminated by the Recipient for Good Reason (as defined below); provided, however, that the RSUs may also immediately vest in connection with a sale of the Company as provided in Section 1(c)(4) below.

(ii) For purposes of this Agreement, a "Change in Control" of the Company shall mean the occurrence of any of the following events:

(A) At any time during a period of two consecutive years, individuals who at the beginning of such period constituted the Board of Directors of the Company ("Incumbent Directors") shall cease for any reason to constitute at least a majority thereof; provided, however, that the term "Incumbent Director" shall also include each new director elected during such two-year period whose nomination or election was approved by two-thirds of the Incumbent Directors then in office;

(B) Any "person" or "group" (within the meaning of Sections 13(d) and 14(d)(2) of the Exchange Act) shall, as a result of a tender or exchange offer, open market purchases or privately negotiated purchases from anyone other than the Company, have become the beneficial owner (within the meaning of Rule 13d-3 under the Exchange Act), directly or

indirectly, of more than fifty percent (50%) of the then outstanding Common Stock of the Company;

(C) A consolidation, merger or plan of exchange involving the Company (“Merger”) as a result of which the holders of outstanding securities of the Company ordinarily having the right to vote for the election of directors (“Voting Securities”) immediately prior to the Merger do not continue to hold at least 50% of the combined voting power of the outstanding Voting Securities of the surviving corporation or a parent corporation of the surviving corporation immediately after the Merger, disregarding any Voting Securities issued to or retained by such holders in respect of securities of any other party to the Merger; or

(D) A sale, lease, exchange, or other transfer (in one transaction or a series of related transactions) of all or substantially all of the assets of the Company.

(iii) For purposes of this Agreement, “Cause” shall mean (a) the willful and continued failure to perform substantially the Recipient’s reasonably assigned duties with the Company (or its successor) (other than any such failure resulting from incapacity due to physical or mental illness) after a demand for substantial performance is delivered to the Recipient by the Company (or its successor) which specifically identifies the manner in which the Company (or its successor) believes that the Recipient has not substantially performed the Recipient’s duties, (b) the willful engagement in illegal conduct which is materially and demonstrably injurious to the Company (or its successor), or (c) the commission of an act by Recipient, or the failure of Recipient to act, which constitutes gross negligence or gross misconduct. No act, or failure to act, shall be considered “willful” if the Recipient reasonably believed that the action or omission was in, or not opposed to, the best interests of the Company (or its successor).

(iv) For purposes of this Agreement, “Good Reason” shall mean Recipient’s voluntary termination, within 30 days following the expiration of any Company cure period (discussed below) following the occurrence of one or more of the following, without Recipient’s consent:

(A) the assignment of a different title, job or responsibilities that results in a substantial reduction in the duties of the Recipient after the Change in Control when compared to the Recipient’s duties with respect to the Company’s operations prior to the Change in Control; provided that any change made solely as the result of the Company becoming a subsidiary or business unit of a larger company in a Change in Control shall not constitute Good Reason unless Recipient’s new duties are substantially reduced from his or her prior duties;

(B) a reduction in Recipient’s target bonus or base salary;

(C) the Company's requiring Recipient to be based more than 50 miles from the principal office at in which Recipient is based immediately prior to the Change in Control, except for reasonably required travel on the Company's business; or

(D) the failure by any successor to the Company to expressly assume this Agreement or any obligation under this Agreement.

Recipient may not resign for Good Reason without first providing the Company with written notice within 90 days of the initial existence of the condition that Recipient believes constitutes Good Reason specifically identifying the acts or omissions constituting the grounds for Good Reason and a reasonable cure period of not less than 30 days following the date of such notice.

For purposes of the "Good Reason" definition, the term "Company" will be interpreted to include any subsidiary, parent, affiliate or successor thereto, if applicable.

(4) *Sale of the Company* . If there shall occur a merger, consolidation or plan of exchange involving the Company pursuant to which the outstanding shares of Common Stock of the Company are converted into cash or other stock, securities or property, or a sale, lease, exchange or other transfer (in one transaction or a series of related transactions) of all, or substantially all, the assets of the Company, then, as determined by the Committee or the Board of Directors, either:

(i) the unvested RSUs shall be converted into restricted stock units for stock of the surviving or acquiring corporation in the applicable transaction, with the amount and type of shares subject thereto to be conclusively determined by the Committee, taking into account the relative values of the companies involved in the applicable transaction and the exchange rate, if any, used in determining shares of the surviving corporation to be held by the former holders of the Company's Common Stock following the applicable transaction, and disregarding fractional shares, with the dates for vesting of RSUs and delivery of shares of Common Stock unchanged;

(ii) the unvested RSUs shall be converted into a cash payment obligation of the surviving or acquiring corporation in an amount equal to the proceeds a holder of the underlying shares would have received in proceeds from such transaction with respect to those shares; or

(iii) all of the unvested RSUs shall immediately vest and all underlying shares shall be delivered simultaneously with the closing of the applicable transaction such that the Recipient will participate as a shareholder in receiving proceeds from such transaction with respect to those shares.

(d) *Forfeiture of RSUs on Other Terminations of Employment*. If Recipient ceases to be an employee of the Company for any reason that does not result in acceleration or payment pursuant to Section 1(c), Recipient shall immediately forfeit all outstanding but unvested

RSUs granted pursuant to this Agreement and Recipient shall have no right to receive the related Common Stock.

(e) *Restrictions on Transfer and Delivery on Death.* Recipient may not sell, transfer, assign, pledge or otherwise encumber or dispose of the RSUs. Recipient may designate beneficiaries to receive shares of stock with respect to RSUs if Recipient dies before the delivery date by so indicating on Exhibit A, which is incorporated into and made a part of this agreement. If Recipient fails to designate beneficiaries on Exhibit A, the shares will be delivered to Recipient's estate.

(f) *Reinvestment of Dividend Equivalents.* On each date on which the Company pays a dividend on a share of Common Stock with respect to an RSU, the number of RSUs subject to this Agreement shall be increased by a number equal to the number of whole or fractional shares of Common Stock with a value equal to the value of the dividends that would have been paid on the stock deliverable pursuant to the RSUs (if such shares were outstanding), divided by the closing stock price on the dividend payment date. If the vesting date for any RSUs subject to this Agreement occurs within seven business days of the payment date for a dividend, the Company, at its option, may elect to pay to Recipient cash, net of withholding, equal to the cash dividend payable on the RSUs which so vest in lieu of increasing the number of RSUs subject to this Agreement.

(g) *Delivery on Delivery Date.* As soon as practicable following the delivery date, the Company shall deliver to Recipient a certificate for the number of shares of Common Stock represented by all RSUs having a delivery date on the same date, rounded down to the whole share. No fractional shares of Common Stock shall be issued. The Company shall pay to Recipient in cash an amount equal to the value of any fractional shares that would otherwise have been issued, valued as of the delivery date. If shares or cash are to be delivered on a particular date, the shares or cash shall be deemed delivered on that date for purposes of compliance with the terms of this Agreement if the cash or shares are actually delivered within 45 days after the specified date as determined in the Company's discretion with the Recipient having no right to determine the delivery date. Recipient shall not have any right to determine or direct the date of actual delivery.

(h) *Recipient's Rights as Shareholder.* Recipient shall have no rights as a shareholder with respect to the RSUs or the shares underlying them until the Company delivers the shares to Recipient on the delivery date.

(i) *Tax Withholding.* Recipient acknowledges that, not later than the actual delivery date, the value of delivered shares of Common Stock will be treated as ordinary compensation income for federal and state income and FICA tax purposes, and that the Company will be required to withhold taxes on this income amount. The Company will notify Recipient of the required withholding amount. Concurrently with or prior to the delivery of the certificate referred to in Section 1(g), Recipient shall pay to the Company the required withholding amount in cash or, at the election of Recipient (which election must be made on or before the vesting date), by surrendering to the Company for cancellation shares of the Company's Common Stock to be delivered with respect to the RSUs or other shares of the Company's Common Stock valued at the closing market price for the Company's Common Stock on the vesting date. If Recipient pays the

withholding amount in shares of Common Stock, the Company shall pay to Recipient in cash the amount of any resulting over payment.

(j) *Section 409A.* The award made pursuant to this Agreement shall be interpreted in accordance with Section 409A and Treasury regulations and other interpretive guidance issued thereunder, including without limitation any such regulations or other guidance issued after the grant of the award. For example, notwithstanding anything to the contrary in this Agreement, (i) a termination of employment shall be determined with respect to standards for “separation from service” within the meaning of applicable regulations; (ii) the provisions described in Sections 1(c)(4)(ii) and 1(c)(4)(iii) shall apply only if such events qualify as a “termination or liquidation of the plan” within the meaning of Treas. Reg. § 1.409A-3(j)(4)(ix); and the provision described in Section 1(c)(4)(i) shall apply only if such events qualify as a “change of control event” within the meaning of Treas. Reg. § 1.409A-3(i)(5)(i).

(1) Notwithstanding any provision of the award to the contrary, the Company may adopt such amendments to the award or adopt other policies and procedures (including amendments, policies and procedures with retroactive effect), or take any other actions, that the Company determines are necessary or appropriate to (1) exempt the award from the application of Section 409A or preserve the intended tax treatment of the benefits provided with respect to the award, or (2) comply with the requirements of Section 409A.

(2) If an amount is determined to be subject to applicable provisions of Section 409A of the Code, payment in connection with termination of employment for a reason other than death may not start or be made to Recipient if the Company determines Recipient is a “key employee” as defined in Section 416(i) of the Code, without regard to Section 416(i)(5) of the Code, before the date which is six months after the date of termination, notwithstanding any other provisions for time of payment in this Agreement, if such delay in payment is necessary to comply with Section 409A of the Code. The Company may determine that Recipient is a key employee in the event of doubt or to avoid impractical efforts or expense to make an exact determination of key employees. Recipient shall have no claim, rights or remedy if the determination is not correct.

2. Miscellaneous .

(a) *Entire Agreement; Amendment.* This Agreement and the provisions of Section 17 of the Plan, which are hereby incorporated by reference and to which this Agreement is expressly subject, constitute the entire agreement of the parties with regard to the subjects hereof and may be amended only by written agreement between the Company and Recipient.

(b) *Notices.* Any notice required or permitted under this Agreement shall be in writing and shall be deemed sufficient when delivered personally to the party to whom it is addressed or when deposited into the United States mail as registered or certified mail, return receipt requested, postage prepaid, addressed to Electro Scientific Industries, Inc., Attention: Corporate Secretary, at its principal executive offices or to Recipient at the address of Recipient in the Company’s records,

or at such other address as such party may designate by ten (10) days' advance written notice to the other party.

(c) *Rights and Benefits.* The rights and benefits of this Agreement shall inure to the benefit of and be enforceable by the Company's successors and assigns and, subject to the restrictions on transfer of this Agreement, be binding upon Recipient's heirs, executors, administrators, successors and assigns.

(d) *Further Action.* The parties agree to execute such further instruments and to take such further action as may reasonably be necessary to carry out the intent of this Agreement.

(e) *Applicable Law; Attorneys' Fees.* The terms and conditions of this Agreement shall be governed by the laws of the State of Oregon. In the event either party institutes litigation hereunder, the prevailing party shall be entitled to reasonable attorneys' fees to be set by the trial court and, upon any appeal, the appellate court.

ELECTRO SCIENTIFIC INDUSTRIES, INC.

By: _____
Authorized Officer

DESIGNATION OF BENEFICIARY

Name _____ Social Security Number ____ - ____ - ____

I designate the following person(s) to receive any restricted stock units outstanding upon my death under the Restricted Stock Units Award Agreement with Electro Scientific Industries, Inc.:

A. Primary Beneficiary(ies)

Name _____ Social Security Number ____ - ____ - ____
Birth Date _____ Relationship _____
Address _____ City _____ State _____ Zip _____

Name _____ Social Security Number ____ - ____ - ____
Birth Date _____ Relationship _____
Address _____ City _____ State _____ Zip _____

Name _____ Social Security Number ____ - ____ - ____
Birth Date _____ Relationship _____
Address _____ City _____ State _____ Zip _____

If more than one primary beneficiary is named, the units will be divided equally among those primary beneficiaries who survive the undersigned.

B. Secondary Beneficiary(ies)

In the event no Primary Beneficiary is living at the time of my death, I designate the following the person(s) as my beneficiary(ies):

Name _____ Social Security Number ____ - ____ - ____
Birth Date _____ Relationship _____
Address _____ City _____ State _____ Zip _____

Name _____ Social Security Number ____ - ____ - ____
Birth Date _____ Relationship _____
Address _____ City _____ State _____ Zip _____

Name _____ Social Security Number ____ - ____ - ____
Birth Date _____ Relationship _____
Address _____ City _____ State _____ Zip _____

If more than one Secondary Beneficiary is named, the units will be divided equally among those Secondary beneficiaries who survive the undersigned.

This designation revokes and replaces all prior designations of beneficiaries under the Restricted Stock Units Award Agreement.

_____, 20____
Signature Date signed:

**CERTIFICATION PURSUANT TO
SECTION 302(a) OF THE SARBANES-OXLEY ACT OF 2002**

I, Michael D. Burger, certify that:

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

Date: February 7, 2017

/s/ Michael D. Burger

Michael D. Burger

President and Chief Executive Officer

**CERTIFICATION PURSUANT TO
SECTION 302(a) OF THE SARBANES-OXLEY ACT OF 2002**

I, Paul Oldham, certify that:

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

Date: February 7, 2017

/s/ Paul Oldham

Paul Oldham

Senior Vice President of Administration,

Chief Financial Officer and Corporate Secretary

**CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with this quarterly report on Form 10-Q of Electro Scientific Industries, Inc. (the Company) for the quarterly period ended December 31, 2016 as filed with the Securities and Exchange Commission on the date hereof (the Report), I, Michael D. Burger, President and Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that to the best of my knowledge:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

/s/ Michael D. Burger

Michael D. Burger

President and Chief Executive Officer

February 7, 2017

This certification is made solely for the purpose of 18 U.S.C. Section 1350, and not for any other purpose. A signed original of this written statement required by Section 906 has been provided to Electro Scientific Industries, Inc. and will be retained by Electro Scientific Industries, Inc. and furnished to the Securities and Exchange Commission or its staff upon request.

**CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with this quarterly report on Form 10-Q of Electro Scientific Industries, Inc. (the Company) for the quarterly period ended December 31, 2016 as filed with the Securities and Exchange Commission on the date hereof (the Report), I, Paul Oldham, Vice President of Administration, Chief Financial Officer, and Corporate Secretary of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that to the best of my knowledge:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

/s/ Paul Oldham

Paul Oldham

Senior Vice President of Administration,

Chief Financial Officer and Corporate Secretary

February 7, 2017

This certification is made solely for the purpose of 18 U.S.C. Section 1350, and not for any other purpose. A signed original of this written statement required by Section 906 has been provided to Electro Scientific Industries, Inc. and will be retained by Electro Scientific Industries, Inc. and furnished to the Securities and Exchange Commission or its staff upon request.