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CYBEROPTICS CORP

Form 10-Q

August 07, 2018

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SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 10-Q

(Check One)

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

For the quarterly period ended June 30, 2018

**TRANSITION PURSUANT TO SECTION 13 OR 15(D)
OF THE SECURITIES EXCHANGE ACT**

For the transition period from _____ to _____

COMMISSION FILE NO. (0-16577)

CYBEROPTICS CORPORATION

(Exact name of registrant as specified in its charter)

Minnesota

(State or other jurisdiction of
incorporation or organization)

41-1472057

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

5900 Golden Hills Drive

MINNEAPOLIS, MINNESOTA

(Address of principal executive offices)

55416

(Zip Code)

(763) 542-5000

(Registrant's telephone number, including area code)

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the

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Securities Exchange Act of 1934 during the preceding 12 months (or 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, smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer", "accelerated filer", "smaller reporting company", and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large Accelerated Filer		Accelerated Filer
Non-Accelerated Filer	(Do not check if a smaller reporting company)	Smaller Reporting Company
		Emerging Growth Company

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

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

Indicate the number of shares outstanding of each of the issuer's classes of common stock, as of the latest practicable date. At July 31, 2018, there were 7,041,589 shares of the registrant's Common Stock, no par value, issued and outstanding.

PART I. FINANCIAL INFORMATION**ITEM 1. INTERIM CONDENSED CONSOLIDATED FINANCIAL STATEMENTS****INTERIM CONDENSED CONSOLIDATED BALANCE SHEETS****CYBEROPTICS CORPORATION****(Unaudited)**

(In thousands, except share information)	June 30, 2018	December 31, 2017
ASSETS		
Cash and cash equivalents	\$ 8,086	\$ 6,944
Marketable securities	6,083	6,670
Accounts receivable, less allowance for doubtful accounts of \$493 at June 30, 2018 and \$473 at December 31, 2017	12,781	10,772
Inventories	14,652	14,393
Other current assets	1,996	1,593
Total current assets	43,598	40,372
Marketable securities, long-term	10,029	9,073
Equipment and leasehold improvements, net	2,230	2,307
Intangible assets, net	330	380
Goodwill	1,366	1,366
Other assets	202	261
Deferred tax assets	5,779	5,742
Total assets	\$ 63,534	\$ 59,501
LIABILITIES AND STOCKHOLDERS' EQUITY		
Accounts payable	\$ 6,329	\$ 4,294
Advance customer payments	908	393
Accrued expenses	2,831	2,285
Total current liabilities	10,068	6,972
Other liabilities	171	88
Reserve for income taxes	159	159
Total liabilities	10,398	7,219
Commitments and contingencies		
Stockholders' equity:		
Preferred stock, no par value, 5,000,000 shares authorized, none outstanding	—	—
Common stock, no par value, 25,000,000 shares authorized, 7,023,936 shares issued and	34,815	34,080

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outstanding at June 30, 2018 and 6,979,686 shares issued and outstanding at December 31, 2017

Accumulated other comprehensive loss	(1,683)	(1,409)
Retained earnings	20,004	19,611
Total stockholders' equity	53,136	52,282
Total liabilities and stockholders' equity	\$ 63,534	\$ 59,501

SEE THE ACCOMPANYING NOTES TO UNAUDITED INTERIM CONDENSED CONSOLIDATED FINANCIAL STATEMENTS.

INTERIM CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS**CYBEROPTICS CORPORATION****(Unaudited)**

(In thousands, except per share amounts)	Three Months Ended June 30,		Six Months Ended June 30,	
	2018	2017	2018	2017
Revenues	\$ 15,854	\$ 16,409	\$ 29,974	\$ 28,329
Cost of revenues	8,590	8,676	16,491	15,198
Gross margin	7,264	7,733	13,483	13,131
Research and development expenses	2,243	1,995	4,423	3,945
Selling, general and administrative expenses	4,138	4,058	8,478	8,028
Amortization of intangibles	8	18	25	35
Income from operations	875	1,662	557	1,123
Interest income and other	95	(28)	157	(116)
Income before income taxes	970	1,634	714	1,007
Income tax expense	230	539	147	126
Net income	\$ 740	\$ 1,095	\$ 567	\$ 881
Net income per share – Basic	\$ 0.11	\$ 0.16	\$ 0.08	\$ 0.13
Net income per share – Diluted	\$ 0.10	\$ 0.15	\$ 0.08	\$ 0.12
Weighted average shares outstanding – Basic	7,010	6,944	6,998	6,928
Weighted average shares outstanding – Diluted	7,242	7,253	7,114	7,083

SEE THE ACCOMPANYING NOTES TO UNAUDITED INTERIM CONDENSED CONSOLIDATED FINANCIAL STATEMENTS.

INTERIM CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME**CYBEROPTICS CORPORATION****(Unaudited)**

(In thousands)	Three Months Ended June 30,		Six Months Ended June 30,	
	2018	2017	2018	2017
Net income	\$ 740	\$ 1,095	\$ 567	\$ 881
Other comprehensive income, before tax:				
Foreign currency translation adjustments	(422)	161	(202)	430
Unrealized gains (losses) on available-for-sale securities:				
Unrealized gains (losses)	4	11	(36)	31
Total unrealized gains (losses) on available-for-sale securities	4	11	(36)	31
Other comprehensive income (loss), before tax	(418)	172	(238)	461
Income tax provision (benefit), other comprehensive income	(1)	(63)	8	(149)
Other comprehensive income (loss), net of tax	(419)	109	(230)	312
Total comprehensive income	\$ 321	\$ 1,204	\$ 337	\$ 1,193

SEE THE ACCOMPANYING NOTES TO UNAUDITED INTERIM CONDENSED CONSOLIDATED FINANCIAL STATEMENTS.

INTERIM CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS**CYBEROPTICS CORPORATION****(Unaudited)**

(In thousands)	Six Months Ended June 30,	
	2018	2017
CASH FLOWS FROM OPERATING ACTIVITIES:		
Net income	\$ 567	\$ 881
Adjustments to reconcile net income to net cash provided by (used in) operating activities:		
Depreciation and amortization	1,224	1,086
Provision for doubtful accounts	25	—
Deferred taxes	29	95
Foreign currency transaction (gains) losses	(113)	198
Stock based compensation	484	400
Unrealized loss on available-for-sale equity security	37	—
Changes in operating assets and liabilities:		
Accounts receivable	(2,034)	(2,864)
Inventories	(821)	(4,751)
Other assets	(363)	(56)
Accounts payable	2,088	3,215
Advance customer payments	321	240
Accrued expenses	556	(1,403)
Net cash provided by (used in) operating activities	2,000	(2,959)
CASH FLOWS FROM INVESTING ACTIVITIES:		
Proceeds from maturities of available-for-sale marketable securities	3,969	3,531
Proceeds from sales of available-for-sale marketable securities	70	—
Purchases of available-for-sale marketable securities	(4,479)	(3,746)
Additions to equipment and leasehold improvements	(642)	(523)
Additions to patents	(36)	(72)
Net cash used in investing activities	(1,118)	(810)
CASH FLOWS FROM FINANCING ACTIVITIES:		
Proceeds from exercise of stock options	251	321
Net cash provided by financing activities	251	321
Effects of exchange rate changes on cash and cash equivalents	9	41
Net increase (decrease) in cash and cash equivalents	1,142	(3,407)
Cash and cash equivalents – beginning of period	6,944	10,640
Cash and cash equivalents – end of period	\$ 8,086	\$ 7,233

SEE THE ACCOMPANYING NOTES TO UNAUDITED INTERIM CONDENSED CONSOLIDATED FINANCIAL STATEMENTS.

NOTES TO THE UNAUDITED INTERIM CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

CYBEROPTICS CORPORATION

1. INTERIM REPORTING:

The interim condensed consolidated financial statements of CyberOptics Corporation ("we", "us" or "our") presented herein as of June 30, 2018, and for the three and six month periods ended June 30, 2018 and 2017, are unaudited, but in the opinion of management, include all adjustments, consisting of normal recurring adjustments, necessary for a fair presentation of financial position, results of operations and cash flows for the periods presented.

The results of operations for the three and six month periods ended June 30, 2018 do not necessarily indicate the results to be expected for the full year. The December 31, 2017 consolidated balance sheet data was derived from audited consolidated financial statements, but does not include all disclosures required by accounting principles generally accepted in the United States of America. The unaudited interim condensed consolidated financial statements should be read in conjunction with our consolidated financial statements and notes thereto contained in our Annual Report on Form 10-K for the year ended December 31, 2017.

2. REVENUE RECOGNITION:

Change in Revenue Accounting

Effective January 1, 2018, we adopted ASU No. 2014-9, "Revenue from Contracts with Customers" and the related amendments ("Topic 606") using the modified retrospective method. Topic 606 was applied to all uncompleted contracts by recognizing the cumulative effect of initially applying Topic 606 as an adjustment to the opening balance of retained earnings at January 1, 2018. Therefore, the comparative financial information for the three and six months ended June 30, 2017 has not been adjusted and continues to be reported under Topic 605, "Revenue Recognition".

Accounting for contracts recognized over time involves the use of various techniques to estimate total contract revenue and costs. Contract estimates are based on various assumptions to project the outcome of future events that may span multiple years. We review and update our contract-related estimates regularly, and record adjustments as needed.

The adoption of Topic 606 caused changes for 1) the impact of volume discounts that represent a material right which will now be estimated and recognized over the contract life rather than on a prospective basis, and 2) revenue will be recognized over time as the products are manufactured under certain contracts where our product is customized rather than at shipment. These changes increased our revenues in the three and six months ended June 30, 2018 by \$84,000 and \$109,000, respectively, when compared to revenue recognition under Topic 605 (see Note 16).

Performance Obligations

Under Topic 606, revenue is measured based on consideration specified in the contract with a customer. A performance obligation is a promise in a contract to transfer a distinct good or service to the customer and is the unit of account in Topic 606. Revenue from all customers, including distributors, is recognized when a performance obligation is satisfied by transferring control of a product or service to a customer. Amounts billed to customers for shipping and handling are included in revenue. Taxes collected from customers and remitted to governmental authorities are excluded from revenue on the net basis of accounting. Accounts receivable are due under normal trade terms, typically 90 days or less.

Sales involving multiple performance obligations typically include the sale of an inspection system or metrology product, installation and training, and in some cases, an extended warranty. When a sale involves multiple performance obligations, we account for individual products and services separately if the customer can benefit from the product or service on its own or with other resources that are readily available to the customer and the product or service are separately identifiable from other promises in the arrangement. The consideration is allocated between separate performance obligations in proportion to their estimated stand-alone selling price. If the stand-alone selling price is not directly observable, we use the cost plus margin approach to estimate stand-alone selling price. Costs related to products delivered are recognized in the period revenue is recognized, including product warranties for periods ranging from 1 to 3 years (see Note 7).

Our performance obligations are satisfied at a point in time or over time as work progresses. Revenue from products and services transferred to customers at a point in time in the three and six months ended June 30, 2018 totaled \$14.7 million and \$28.0 million, respectively, which represented 93% of our total revenue in both periods. Revenue from these contracts is recognized when obligations under the terms of the contract with our customer are satisfied; generally with the transfer of control upon shipment. Sales of some products may require customer acceptance due to performance or other acceptance criteria that is considered more than a formality. For these product sales, revenue is recognized upon notification of customer acceptance.

Revenue from products and services transferred to customers over time in the three and six months ended June 30, 2018 totaled \$1.1 million and \$2.0 million, respectively, which represented 7% of our total revenue in both periods. Periodically sensor product arrangements with our original equipment manufacturers (OEMs) will create an asset with no alternative use and include an enforceable right to payment for cost plus margin. For these arrangements control is transferred over the manufacturing process; therefore, revenue is recognized over time utilizing an input method based on actual costs incurred in the manufacturing process to date relative to total expected production costs. For certain longer duration 3D scanning service projects, we progress bill as the services are performed. These arrangements create an asset with no alternative use and include an enforceable right to payment. For these arrangements, control is transferred over the hours incurred to complete the scanning project; therefore, revenue is recognized over time utilizing an input method based on actual hours incurred relative to total projected project hours. For maintenance and extended warranty contracts, revenue is recognized over time on a straight-line basis over the term of the contract as the customer simultaneously receives and consumes the benefits of the coverage.

Contract Balances

Contract assets consist of unbilled amounts from sales where we recognize the revenue over time and the revenue recognized exceeds the amount billed to the customer at a point in time. Accounts receivable are recorded when the right to payment becomes unconditional. Contract liabilities consist of payments received in advance of performance under the contract. Contract liabilities are recognized as revenue when we perform under the contract. The following summarizes our contract assets and contract liabilities:

	June 30,	January 1,
(In thousands)	2018	2018
Contract assets, included in other current assets	\$ 62	\$ —
Contract liabilities, included in advance customer payments/other liabilities	\$ 646	\$ 443

Changes in contract assets in the six months ended June 30, 2018 were inconsequential. Changes in contract liabilities primarily resulted from reclassification of beginning contract liabilities to revenue as performance obligations were satisfied, or for cash received in advance and not recognized as revenue. Amounts reclassified from beginning contract liabilities to revenue in the three and six months ended June 30, 2018 totaled \$166,000 and \$223,000, respectively. See Note 7 for changes in contractual obligations related to deferred warranty revenue. Unsatisfied performance obligations are generally expected to be recognized as revenue over the next one to three years. There were no impairment losses for contract assets in the six months ended June 30, 2018.

Practical Expedients

We generally expense incremental costs of obtaining a contract when incurred because the amortization period for these costs would be less than one year. These costs primarily relate to sales commissions and are recorded in selling, general and administrative expense in our consolidated statements of operations.

We do not disclose the value of unsatisfied performance obligations for contracts with an original expected length of one year or less. We do not adjust the promised amount of consideration for the effects of a significant financing component if we expect, at contract inception, that the period between when we transfer a promised good or service to a customer and when the customer pays for that good or service will be one year or less.

3. MARKETABLE SECURITIES:

Our investments in marketable securities are classified as available-for-sale and consist of the following:

(In thousands)	June 30, 2018			
	Cost	Unrealized Gains	Unrealized Losses	Fair Value
<u>Short-Term</u>				
U.S. government and agency obligations	\$ 3,496	\$ 1	\$ (15)	\$ 3,482
Corporate debt securities and certificates of deposit	2,255	2	(9)	2,248
Asset backed securities	355	—	(2)	353
Marketable securities – short-term	\$ 6,106	\$ 3	\$ (26)	\$ 6,083
<u>Long-Term</u>				
U.S. government and agency obligations	\$ 5,984	\$ 1	\$ (55)	\$ 5,930
Corporate debt securities and certificates of deposit	535	—	(7)	528
Asset backed securities	3,540	—	(29)	3,511
Equity security	42	18	—	60
Marketable securities – long-term	\$ 10,101	\$ 19	\$ (91)	\$ 10,029

(In thousands)	December 31, 2017			
	Cost	Unrealized Gains	Unrealized Losses	Fair Value
Short-Term				
U.S. government and agency obligations	\$ 4,381	\$ —	\$ (13)	\$ 4,368
Corporate debt securities and certificates of deposit	1,792	—	(4)	1,788
Asset backed securities	515	—	(1)	514
Marketable securities – short-term	\$ 6,688	\$ —	\$ (18)	\$ 6,670
Long-Term				
U.S. government and agency obligations	\$ 4,801	\$ —	\$ (33)	\$ 4,768
Corporate debt securities and certificates of deposit	1,189	—	(10)	1,179
Asset backed securities	3,045	—	(16)	3,029
Equity security	42	55	—	97
Marketable securities – long-term	\$ 9,077	\$ 55	\$ (59)	\$ 9,073

(In thousands)	In Unrealized Loss Position For Less Than 12 Months		In Unrealized Loss Position For Greater Than 12 Months	
	Fair Value	Gross Unrealized Losses	Fair Value	Gross Unrealized Losses
June 30, 2018				
U.S. government and agency obligations	\$ 5,190	\$ (49)	\$ 3,488	\$ (21)
Corporate debt securities and certificates of deposit	227	(3)	1,721	(13)
Asset backed securities	2,494	(18)	1,370	(13)
Marketable securities – short-term	\$ 7,911	\$ (70)	\$ 6,579	\$ (47)
December 31, 2017				
U.S. government and agency obligations	\$ 5,593	\$ (29)	\$ 3,543	\$ (17)
Corporate debt securities and certificates of deposit	478	(2)	1,991	(12)
Asset backed securities	2,312	(9)	1,232	(8)
Marketable securities – long-term	\$ 8,383	\$ (40)	\$ 6,766	\$ (37)

Effective January 1, 2018, we adopted ASU No. 2016-01, *Recognition and Measurement of Financial Assets and Liabilities*, which impacted the accounting for our marketable equity security (see Note 16). Our investments in marketable debt securities all have maturities of less than five years. Net pre-tax unrealized losses for marketable securities of \$95,000 at June 30, 2018 and \$22,000 at December 31, 2017 have been recorded as a component of accumulated other comprehensive loss in stockholders' equity. We have determined that the net pre-tax unrealized losses for marketable debt securities at June 30, 2018 and December 31, 2017 were caused by fluctuations in interest rates and are temporary in nature. We review our marketable securities to identify and evaluate investments that have indications of possible impairment. Factors considered in determining whether a loss is other-than-temporary include the length of time and extent to which fair value of the investment has been less than the cost basis, the credit quality of the investment and our ability and intent to hold the investment for a period of time sufficient to allow for any anticipated recovery in market value. We received proceeds from the sale of marketable securities of \$70,000 in the six months ended June 30, 2018, and no gains or losses were recognized on the sale. No marketable securities were sold in the three months ended June 30, 2018 or six months ended June 30, 2017.

Investments in marketable securities classified as cash equivalents of \$2.3 million at June 30, 2018 and \$1.6 million at December 31, 2017 consist of corporate debt securities and certificates of deposit. There were no unrealized gains or losses associated with any of these securities at June 30, 2018 or December 31, 2017.

Cash and marketable securities held by foreign subsidiaries totaled \$342,000 at June 30, 2018 and \$187,000 at December 31, 2017.

4. FAIR VALUE MEASUREMENTS:

We determine the fair value of our assets and liabilities based on the exchange price that would be received for an asset or paid to transfer a liability (i.e., the exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Valuation techniques used to measure fair value maximize the use of observable inputs and minimize the use of unobservable inputs. We use a fair value hierarchy with three levels of inputs to measure fair value, of which the first two are considered observable and the last is considered unobservable. The fair value hierarchy gives the highest priority to quoted prices in active markets for identical assets or liabilities (Level 1). The next highest priority is based on quoted prices for similar assets or liabilities in active markets or quoted prices for identical or similar assets or liabilities in non-active markets or other observable inputs (Level 2). The lowest priority is given to unobservable inputs (Level 3). The following table provides information regarding fair value measurements for our marketable securities as of June 30, 2018 and December 31, 2017 according to the three-level fair value hierarchy:

(In thousands)	Fair Value Measurements at June 30, 2018 Using			
	Balance June 30, 2018	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Marketable securities:				
U.S. government and agency obligations	\$ 9,412	\$ —	\$ 9,412	\$ —
Corporate debt securities and certificates of deposit	2,776	—	2,776	—
Asset backed securities	3,864	—	3,864	—
Equity security	60	60	—	—
Total marketable securities	\$ 16,112	\$ 60	\$ 16,052	\$ —
(In thousands)	Fair Value Measurements at December 31, 2017 Using			
	Balance December 31, 2017	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Marketable securities:				
U.S. government and agency obligations	\$ 9,136	\$ —	\$ 9,136	\$ —
Corporate debt securities and certificates of deposit	2,967	—	2,967	—
Asset backed securities	3,543	—	3,543	—
Equity security	97	97	—	—
Total marketable securities	\$ 15,743	\$ 97	\$ 15,646	\$ —

During the six months ended June 30, 2018 and the year ended December 31, 2017, there were no transfers of assets between the different levels of the three-level hierarchy. A significant transfer is recognized when the inputs used to value a security have been changed sufficiently to merit a transfer between the levels of the valuation hierarchy.

The fair value for our U.S. government and agency obligations, corporate debt securities and certificates of deposit and asset backed securities are determined based on valuations provided by external investment managers, which obtain the valuations from a variety of industry standard data providers. The fair value for our equity security is based on a quoted market price obtained from an active market.

The carrying amounts of financial instruments such as cash equivalents, accounts receivable, other assets, accounts payable, advance customer payments, accrued expenses and other liabilities are approximately equal to their related fair values due to their short-term maturities. Non-financial assets such as equipment and leasehold improvements, goodwill and intangible assets are subject to non-recurring fair value measurements if they are deemed impaired. We had no re-measurements of non-financial assets to fair value in the six months ended June 30, 2018 or the six months ended June 30, 2017.

5. ACCOUNTING FOR STOCK-BASED COMPENSATION:

We have stock-based compensation plans that are administered by the Compensation Committee of the Board of Directors. We have (1) an Employee Stock Incentive Plan for officers, other employees, consultants and independent contractors under which we have granted options and restricted stock units to officers and other employees, (2) an Employee Stock Purchase Plan under which shares of our common stock may be acquired by employees at discounted prices, and (3) a Non-Employee Director Stock Plan that provides for automatic grants of shares of our common stock to non-employee directors. New shares of our common stock are issued upon stock option exercises, vesting of restricted stock units, issuances of shares to board members and issuances of shares under the Employee Stock Purchase Plan.

Employee Stock Incentive Plan

As of June 30, 2018, there were 327,839 shares of common stock reserved in the aggregate for issuance pursuant to future awards under our Employee Stock Incentive Plan and 566,487 shares of common stock reserved in the aggregate for issuance pursuant to outstanding awards under our Employee Stock Incentive Plan. Although our Compensation Committee has authority to issue options, restricted stock, restricted stock units, share grants and other share-based benefits under our Employee Stock Incentive Plan, to date only restricted stock units and stock options have been granted under the plan. Options have been granted at an option price per share equal to the market value of our common stock on the date of grant, vest over a four year period and expire seven years after the date of grant. Restricted stock units vest over a four year period and entitle the holders to one share of our common stock for each restricted stock unit. Shares reserved for outstanding awards, including options and restricted stock units, that are forfeited become available under the Employee Stock Incentive Plan for future grants.

Non-Employee Director Stock Plan

As of June 30, 2018, there were 60,000 shares of common stock reserved in the aggregate for issuance pursuant to future restricted share awards under our Non-Employee Director Stock Plan and 16,000 shares of common stock reserved in the aggregate for issuance pursuant to outstanding stock option awards under our Non-Employee Director Stock Plan. Under the terms of the plan, each non-employee director will automatically be granted 2,000 shares of our common stock on the date of each annual meeting at which such director is elected to serve on the board. At our May 11, 2017 annual meeting, our shareholders, upon recommendation of the Board of Directors, approved amendments to the Non-Employee Director Stock Plan that eliminated annual stock option grants for non-employee directors and provided for annual restricted share grants of 2,000 shares of common stock which vest in four equal quarterly installments during the year after the grant date, provided the non-employee director is still serving as a director on the applicable vesting date.

On the date of our 2018 annual meeting, we issued a total of 8,000 shares of our common stock to our non-employee directors. The shares had an aggregate fair market value on the date of grant equal to \$130,000 (grant date fair value of \$16.25 per share). As of June 30, 2018, none of these shares were vested. The aggregate fair value of the outstanding unvested shares based on the closing price of our common stock on June 30, 2018 was \$139,000.

On the date of our 2017 annual meeting, we issued a total of 8,000 shares of our common stock to our non-employee directors. The shares had an aggregate fair market value on the date of grant equal to \$167,000 (grant date fair value of \$20.90 per share).

Stock Option Activity

The following is a summary of stock option activity in the six months ended June 30, 2018:

	Options Outstanding	Weighted Average Exercise Price Per Share
Outstanding, December 31, 2017	568,525	\$ 10.24
Granted	—	—
Exercised	(31,250)	8.02
Expired	—	—
Forfeited	—	—
Outstanding, June 30, 2018	537,275	\$ 10.37
Exercisable, June 30, 2018	335,563	\$ 8.60

The intrinsic value of an option is the amount by which the market price of the underlying common stock exceeds the option's exercise price. For options outstanding at June 30, 2018, the weighted average remaining contractual term of all outstanding options was 3.9 years and their aggregate intrinsic value was \$4.1 million. At June 30, 2018, the weighted average remaining contractual term of options that were exercisable was 3.2 years and their aggregate intrinsic value was \$3.0 million. The aggregate intrinsic value of stock options exercised in the six months ended June 30, 2018 was \$315,000. We received proceeds from stock option exercises of \$251,000 in the six months ended June 30, 2018 and \$321,000 in the six months ended June 30, 2017. The aggregate fair value of options that vested in the six months ended June 30, 2018 was \$204,000.

Restricted Shares and Restricted Stock Units

Restricted shares are granted under our Non-Employee Director Stock Plan. There were 8,000 restricted shares granted in the six months ended June 30, 2018 (weighted average grant date fair value of \$16.25 per share). Restricted stock units are granted under our Employee Stock Incentive Plan. No restricted stock units were granted in the six months ended June 30, 2018. The aggregate fair value of outstanding restricted shares and restricted stock units based on the closing share price of our common stock on June 30, 2018 was \$926,000. The aggregate fair value of restricted shares and restricted stock units that vested in the

A summary of activity for non-vested restricted shares and restricted stock units in the six months ended June 30, 2018 is as follows:

Non-vested restricted stock units and restricted shares	Shares	Weighted Average Grant Date Fair Value
Non-vested at December 31, 2017	54,212	\$ 14.86
Granted	8,000	16.25
Vested	(9,000)	13.16
Forfeited	—	—
Non-vested at June 30, 2018	53,212	\$ 15.36

Employee Stock Purchase Plan

We have an Employee Stock Purchase Plan available to eligible U.S. employees. Under terms of the plan, eligible employees may designate from 1% to 10% of their compensation to be withheld through payroll deductions, up to a maximum of \$6,500 in each plan year, for the purchase of common stock at 85% of the lower of the market price on the first or last day of the offering period. There were no shares issued under this plan in the six months ended June 30, 2018 or the six months ended June 30, 2017. At our 2018 annual meeting, our shareholders adopted amendments to the plan increasing the number of shares authorized for issuance under the plan by 150,000 and extending the expiration date of the plan to August 1, 2028. As of June 30, 2018, 190,872 shares remain available for future issuance under the Employee Stock Purchase Plan.

Stock Based Compensation Information

All stock based compensation awarded to our employees and non-employee directors, representing grants of restricted shares, stock options and restricted stock units, are recognized as an expense in our consolidated statement of operations based on the grant date fair value of the award. We utilize the straight-line method of expense recognition over the vesting period for our options subject to time-based vesting restrictions. The fair value of stock options granted has been determined using the Black-Scholes model. We have classified equity-based compensation expenses

within our statement of operations in the same manner as our cash based compensation costs.

Stock based compensation expense in the three months ended June 30, 2018 totaled \$225,000, and included \$109,000 for stock options, \$21,000 for our Employee Stock Purchase Plan, \$58,000 for unvested restricted stock units and \$37,000 for unvested restricted shares. **Stock based compensation expense in the six months ended June 30, 2018 totaled \$484,000, and included \$234,000 for stock options, \$55,000 for our Employee Stock Purchase Plan, \$117,000 for unvested restricted stock units and \$78,000 for unvested restricted shares.**

Stock based compensation expense in the three months ended June 30, 2017 totaled \$212,000, and included \$115,000 for stock options, \$26,000 for our Employee Stock Purchase Plan, \$48,000 for unvested restricted stock units and \$23,000 for unvested restricted shares. **Stock based compensation expense in the six months ended June 30, 2017 totaled \$400,000, and included \$229,000 for stock options, \$52,000 for our Employee Stock Purchase Plan, \$96,000 for unvested restricted stock units and \$23,000 for unvested restricted shares.**

At June 30, 2018, the total unrecognized compensation cost related to outstanding non-vested stock based compensation arrangements was \$1.6 million, and the related weighted average period over which this cost is expected to be recognized was 1.7 years.

6. CHANGES IN STOCKHOLDERS' EQUITY:

A reconciliation of the changes in our stockholders' equity is as follows:

(In thousands)	Common Stock		Accumulated		Total Stockholders' Equity
	Shares	Amount	Other Comprehensive Loss	Retained Earnings	
Balance, December 31, 2017	6,980	\$ 34,080	\$ (1,409)	\$ 19,611	\$ 52,282
Increase related to adoption of ASU 2016-01	—	—	(44)	44	—
Decrease related to adoption of ASU 2014-09	—	—	—	(218)	(218)
Exercise of stock options, vesting of restricted stock units and grants of restricted shares, net of shares exchanged as payment	44	251	—	—	251
Stock-based compensation	—	484	—	—	484
Other comprehensive income, net of tax	—	—	(230)	—	(230)
Net income	—	—	—	567	567
Balance, June 30, 2018	7,024	\$ 34,815	\$ (1,683)	\$ 20,004	\$ 53,136

See Note 16 for further discussion regarding the impact of our adoption of ASU No. 2016-01, *Recognition and Measurement of Financial Assets and Financial Liabilities*, on our consolidated financial statements. See Note 2 and Note 16 for further discussion regarding the impact of our adoption of ASU No. 2014-09, *Revenue from Contracts with Customers*, on our consolidated financial statements.

7. OTHER FINANCIAL STATEMENT DATA:

The components of our inventories are as follows:

(In thousands)	June 30, 2018	December 31, 2017
Raw materials and purchased parts	\$ 8,408	\$ 7,383
Work in process	1,433	1,666
Finished goods	4,811	5,344
Total inventories	\$ 14,652	\$ 14,393

The components of our accrued expenses are as follows:

(In thousands)	June 30, 2018	December 31, 2017
Wages and benefits	\$ 1,813	\$ 1,328

Warranty liability	680	713	
Other	338	244	
	\$ 2,831	\$	2,285

Warranty costs:

We provide for the estimated cost of product warranties, which cover products for periods ranging from 1 to 3 years, at the time revenue is recognized. While we engage in extensive product quality programs and processes, including actively monitoring and evaluating the quality of components provided by suppliers, warranty obligations do arise. These obligations are affected by product failure rates, the costs of materials used and service delivery expenses incurred, in correcting a product failure. If actual product failure rates and material usage or service delivery costs differ from our estimates, revisions to the estimated warranty liability are required and could be material. At the end of each reporting period, we revise our estimated warranty liability based on these factors. The current portion of our warranty liability is included as a component of accrued expenses. The long-term portion of our warranty liability is included as a component of other liabilities.

A reconciliation of the changes in our estimated warranty liability is as follows:

(In thousands)	Six Months Ended June 30,	
	2018	2017
Balance at beginning of period	\$ 767	\$ 790
Accrual for warranties	218	250
Warranty revision	20	(24)
Settlements made during the period	(270)	(260)
Balance at end of period	735	756
Current portion of estimated warranty liability	(680)	(709)
Long-term estimated warranty liability	\$ 55	\$ 47

Deferred warranty revenue:

The current portion of our deferred warranty revenue is included as a component of advance customer payments. The long-term portion of our deferred warranty revenue is included as a component of other liabilities. A reconciliation of the changes in our deferred warranty revenue is as follows:

(In thousands)	Six Months Ended June 30,	
	2018	2017
Balance at beginning of period	\$ 259	\$ 346
Revenue deferrals	235	204
Amortization of deferred revenue	(211)	(209)
Total deferred warranty revenue	283	341
Current portion of deferred warranty revenue	(273)	(300)
Long-term deferred warranty revenue	\$ 10	\$ 41

8. INTANGIBLE ASSETS:

Intangible assets consist of the following:

(In thousands)	June 30, 2018			December 31, 2017		
	Gross Carrying Amount	Accumulated Amortization	Net	Gross Carrying Amount	Accumulated Amortization	Net
Patents	\$ 2,686	\$ (2,487)	\$ 199	\$ 2,687	\$ (2,463)	\$ 224
Software	206	(126)	80	206	(111)	95
Marketing assets and customer relationships	101	(50)	51	101	(45)	56
Non-compete agreements	101	(101)	—	101	(96)	5
	\$ 3,094	\$ (2,764)	\$ 330	\$ 3,095	\$ (2,715)	\$ 380

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Amortization expense for our intangible assets in the three and six months ended June 30, 2018 and 2017 is as follows:

(In thousands)	Three Months Ended June 30,		Six Months Ended June 30,	
	2018	2017	2018	2017
Patents	\$ 28	\$ 26	\$ 56	\$ 51
Software	7	8	15	16
Marketing assets and customer relationships	1	3	5	6
Non-compete agreements	—	7	5	13
	\$ 36	\$ 44	\$ 81	\$ 86

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Amortization of patents has been classified as research and development expense in our statements of operations. Estimated aggregate amortization expense based on current intangible assets for the next five years is expected to be as follows: \$71,000 for the remainder of 2018; \$124,000 in 2019; \$92,000 in 2020; \$23,000 in 2021; \$9,000 in 2022; and \$11,000 in 2023.

Intangible and other long lived assets are reviewed for impairment when events or changes in circumstances indicate that the carrying amount of the assets may not be recoverable. An impairment loss is recognized when future undiscounted cash flows expected to result from use of the asset and its eventual disposition are less than the carrying amount.

9. REVENUE CONCENTRATIONS, SIGNIFICANT CUSTOMERS AND GEOGRAPHIC AREAS:

The following summarizes our revenue by product line:

(In thousands)	Three Months Ended June 30,		Six Months Ended June 30,	
	2018	2017	2018	2017
High Precision 3D and 2D Sensors	\$ 5,253	\$ 5,635	\$ 10,308	\$ 9,539
Semiconductor Sensors	3,940	3,153	7,101	5,470
SMT Inspection Systems, Metrology Products and Services	6,661	7,621	12,565	13,320
Total	\$ 15,854	\$ 16,409	\$ 29,974	\$ 28,329

Export sales as a percentage of total sales in the three and six months ended June 30, 2018 were 71% and 72%, respectively. Export sales as a percentage of total sales in the three and six months ended June 30, 2017 were 74% and 76%, respectively. Virtually all of our export sales are negotiated, invoiced and paid in U.S. dollars. Export sales by geographic area are summarized as follows:

(In thousands)	Three Months Ended June 30,		Six Months Ended June 30,	
	2018	2017	2018	2017
Americas	\$ 142	\$ 397	\$ 213	\$ 817
Europe	2,686	3,756	5,266	6,571
Asia	8,397	7,813	15,858	13,974
Other	95	105	200	144
Total export sales	\$ 11,320	\$ 12,071	\$ 21,537	\$ 21,506

In the six months ended June 30, 2018, sales to significant customer A accounted for 11% of our total revenue and sales to significant customer B accounted for 10% of our total revenue. As of June 30, 2018, accounts receivable from significant customer A were \$1.3 million and accounts receivable from significant customer B were \$1.2 million.

10. NET INCOME PER SHARE:

Net income per basic share is computed by dividing net income by the weighted average number of common shares outstanding during the period. Net income per diluted share is computed by dividing net income by the weighted average number of common and common equivalent shares outstanding during the period. Common equivalent shares consist of common shares to be issued upon exercise of stock options, vesting of restricted stock units, vesting of restricted shares and from purchases of shares under our Employee Stock Purchase Plan, as calculated using the treasury stock method. The components of net income per basic and diluted share were as follows:

(In thousands except per share amounts)	Net Income	Weighted Average Shares Outstanding	Per Share Amount
Three Months Ended June 30, 2018			
Basic	\$ 740	7,010	\$ 0.11
Dilutive effect of common equivalent shares	—	232	(0.01)
Dilutive	\$ 740	7,242	\$ 0.10

(In thousands except per share amounts)	Net Income	Weighted Average Shares Outstanding	Per Share Amount
Three Months Ended June 30, 2017			
Basic	\$ 1,095	6,944	\$ 0.16
Dilutive effect of common equivalent shares	—	309	(0.01)
Dilutive	\$ 1,095	7,253	\$ 0.15

(In thousands except per share amounts)	Net Income	Weighted Average Shares Outstanding	Per Share Amount
Six Months Ended June 30, 2018			
Basic	\$ 567	6,998	\$ 0.08
Dilutive effect of common equivalent shares	—	116	—
Dilutive	\$ 567	7,114	\$ 0.08

(In thousands except per share amounts)	Net Income	Weighted Average Shares Outstanding	Per Share Amount
Six Months Ended June 30, 2017			
Basic	\$ 881	6,928	\$ 0.13
Dilutive effect of common equivalent shares	—	155	(0.01)
Dilutive	\$ 881	7,083	\$ 0.12

Potentially dilutive shares excluded from the calculations of net income per diluted share due to their anti-dilutive effect were as follows: 123,000 shares in the three months ended June 30, 2018; 369,000 shares in the six months ended June 30, 2018; 48,000 shares in the three months ended June 30, 2017; and 329,000 shares in the six months ended June 30, 2017.

11. OTHER COMPREHENSIVE INCOME (LOSS):

Reclassification adjustments are made to avoid double counting for items included in other comprehensive income (loss) that are also recorded as part of net income. Other comprehensive income (loss) consists of the following:

(In thousands)	Three Months Ended June 30, 2018			Three Months Ended June 30, 2017		
	Before Tax	Tax Effect	Net of Tax Amount	Before Tax	Tax Effect	Net of Tax Amount
Foreign currency translation adjustments	\$ (422)	\$ —	—\$ (422)	\$ 161	\$ (59)	\$ 102
Net changes related to available-for-sale securities:						
Unrealized losses	4	(1)	3	11	(4)	7
Reclassification adjustments	—	—	—	—	—	—

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Total net changes related to available-for-sale securities	4	(1)	3	11	(4)	7
Other comprehensive income (loss)	\$ (418)	\$ (1)	\$ (419)	\$ 172	\$ (63)	\$ 109

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(In thousands)	Six Months Ended June 30, 2018			Six Months Ended June 30, 2017		
	Before Tax	Tax Effect	Net of Tax Amount	Before Tax	Tax Effect	Net of Tax Amount
Foreign currency translation adjustments	\$ (202)	\$ —	—\$ (202)	\$ 430	\$ (138)	\$ 292
Net changes related to available-for-sale securities:						
Unrealized gains (losses)	(36)	8	(28)	31	(11)	20
Reclassification adjustments	—	—	—	—	—	—
Total net changes related to available-for-sale securities	(36)	8	(28)	31	(11)	20
Other comprehensive income (loss)	\$ (238)	\$ 8	\$ (230)	\$ 461	\$ (149)	\$ 312

At June 30, 2018 and June 30, 2017, components of accumulated other comprehensive loss were as follows:

(In thousands)	Foreign Currency Translation Adjustments	Available-for-Sale Securities	Accumulated Other Comprehensive Loss
Balances at December 31, 2017	\$ (1,394)	\$ (15)	\$ (1,409)
Decrease related to adoption of ASU 2016-01 (See Note 16)	—	(44)	(44)
Other comprehensive income before reclassifications	(202)	(28)	(230)
Amounts reclassified from accumulated other comprehensive loss	—	—	—
Total change for the period	(202)	(72)	(274)
Balances at June 30, 2018	\$ (1,596)	\$ (87)	\$ (1,683)

(In thousands)	Foreign Currency Translation Adjustments	Available-for-Sale Securities	Accumulated Other Comprehensive Loss
Balances at December 31, 2016	\$ (1,928)	\$ (12)	\$ (1,940)
Other comprehensive income before reclassifications	292	20	312
Amounts reclassified from accumulated other comprehensive loss	—	—	—
Total change for the period	292	20	312
Balances at June 30, 2017	\$ (1,636)	\$ 8	\$ (1,628)

12. INCOME TAXES:

We recorded income tax expense of \$230,000 in the three months ended June 30, 2018, compared to income tax expense of \$539,000 in the three months ended June 30, 2017. We recorded income tax expense of \$147,000 in the six months ended June 30, 2018, compared to income tax expense of \$126,000 in the six months ended June 30, 2017. Our income tax provision in the six months ended June 30, 2018, reflected an effective income tax rate of approximately 25%, and included \$33,000 of excess tax benefits from employee share-based payments. Our income tax provision in the six months ended June 30, 2017, reflected an effective income tax rate of approximately 33%, and included \$208,000 of excess tax benefits from employee share-based payments. Excess tax benefits recognized in the three months ended June 30, 2018 and the three months ended June 30, 2017 were

inconsequential. The decrease in our effective income tax rate in the six months ended June 30, 2018 was primarily due to the new lower tax rates provided for in the Tax Cuts and Jobs Act passed by the U.S. Congress in December 2017.

We have significant deferred tax assets as a result of temporary differences between taxable income on our tax returns and U.S. GAAP income, research and development tax credit carry forwards and federal, state and foreign net operating loss carry forwards. A deferred tax asset generally represents future tax benefits to be received when temporary differences previously reported in our consolidated financial statements become deductible for income tax purposes, when net operating loss carry forwards could be applied against future taxable income, or when tax credit carry forwards are utilized on our tax returns. We assess the realizability of our deferred tax assets and the need for a valuation allowance based on the guidance provided in current financial accounting standards.

Significant judgment is required in determining the realizability of our deferred tax assets. The assessment of whether valuation allowances are required considers, among other matters, the nature, frequency and severity of any current and cumulative losses, forecasts of future profitability, the duration of statutory carry forward periods, our experience with loss carry forwards not expiring unused and tax planning alternatives. In analyzing the need for valuation allowances, we considered our history of cumulative operating results for income tax purposes over the past three years in each of the tax jurisdictions in which we operate, our financial performance in recent quarters, statutory carry forward periods and tax planning alternatives. In addition, we considered both our near-term and long-term financial outlook. After considering all available evidence (both positive and negative), we concluded that recognition of valuation allowances for substantially all of our U.S. and Singapore deferred tax assets was not required at June 30, 2018.

The Inland Revenue Authority of Singapore is reviewing our 2016 and 2015 income tax returns. We do not presently anticipate that the outcome of these audits will have a significant impact on our financial position or results of operations.

13. SHARE REPURCHASE:

Our Board of Directors has authorized a \$3.0 million share repurchase program. Under this program, \$2.8 million remains available for future repurchases of shares of common stock. The common stock may be acquired from time to time in open market transactions, block purchases and other transactions complying with the Securities and Exchange Commission's Rule 10b-18. The share repurchase program will terminate on September 30, 2018. During the six months ended June 30, 2018, no shares were repurchased under this program.

14. NEW LEASE OBLIGATION:

We lease a 50,724 square foot mixed office and warehouse facility built to our specifications in Golden Valley, Minnesota, which functions as our corporate headquarters and primary manufacturing facility for our sensor and semiconductor products. We also lease a 10,165 square foot facility in Bloomington, Minnesota. The leases for both spaces expire on December 31, 2018. In May 2018, we finalized an amendment to the lease for our current Golden Valley, Minnesota facility that will become effective on January 1, 2019. The amendment provides that we will lease 61,208 square feet of space in our current location through July 31, 2026. The increase in the size of the facility will allow us to conduct the operations currently carried out at our Bloomington, Minnesota facility in our current Golden Valley, Minnesota location. Future lease payments due under the lease amendment for the period from January 1, 2019 through July 31, 2026 are approximately \$7.9 million. We anticipate that our annual rental payments will increase by approximately \$200,000 when the lease amendment becomes effective in January 2019.

15. CONTINGENCIES:

We are periodically a defendant in miscellaneous claims and disputes in the ordinary course of business. While the outcome of these matters cannot be predicted with certainty, management presently believes the disposition of these matters will not have a material effect on our financial position, results of operations or cash flows.

In the normal course of business to facilitate sales of our products and services, we at times indemnify other parties, including customers, with respect to certain matters. In these instances, we have agreed to hold the other parties harmless against losses arising out of intellectual property infringement or other types of claims. These agreements may limit the time within which an indemnification claim can be made, and almost always limit the amount of the claim. It is not possible to determine the maximum potential liability under these indemnification agreements due to the limited history of prior indemnification claims and the unique facts and circumstances involved in each particular agreement. Historically, payments made, if any, under these agreements have not had a material impact on our operating results, financial position or cash flows.

16. RECENT ACCOUNTING DEVELOPMENTS:

In May 2014, the Financial Accounting Standards Board (the "FASB") issued Topic 606, which provided guidance on the recognition of revenue from contracts with customers

In January 2016, the FASB issued ASU No. 2016-01, *Recognition and Measurement of Financial Assets and Liabilities*, which revised the accounting related to (1) the classification and measurement of investments in equity securities and (2) the presentation of certain fair value changes for financial liabilities measured at fair value. ASU No. 2016-01 also amended certain disclosure requirements associated with the fair value of financial instruments. The new guidance requires the fair value measurement of investments in equity securities and other ownership interests in an entity that do not result in consolidation and are not accounted for under the equity method. Entities will need to measure these investments and recognize changes in fair value in net income. Entities will no longer be able to recognize unrealized holding gains and losses on equity securities they classify under current guidance as available-for-sale in other comprehensive income. ASU No. 2016-01 was effective beginning January 1, 2018 and resulted in a cumulative-effect adjustment to beginning retained earnings, except for guidance relative to equity securities without readily determinable fair values which is applied prospectively. Our adoption of ASU 2016-01 on January 1, 2018 resulted in a \$44,000 increase in retained earnings and accumulated other comprehensive loss.

In February 2016, the FASB issued new lease accounting guidance, ASU No. 2016-02, *Leases*. Under the new guidance, at the commencement date, lessees will be required (a) to recognize a lease liability, which is a lessee's obligation to make lease payments arising from a lease, measured on a discounted basis, and (b) to record a right-of-use asset, which is an asset that represents the lessee's right to use, or control the use of, a specified asset for the lease term. The new guidance is not applicable for leases with a term of 12 months or less. Lessor accounting is largely unchanged. U.S. public companies are required to apply the amendments in ASU No. 2016-02 for fiscal years beginning after December 15, 2018, including interim periods within those fiscal years. Early application is permitted. Lessees (for capital and operating leases) and lessors (for sales-type, direct financing, and operating leases) must apply a modified retrospective transition approach for leases existing at, or entered into after, the beginning of the earliest comparative period presented in the financial statements. The modified retrospective approach would not require any transition accounting for leases that expired before the earliest comparative period presented. Lessees and lessors may not apply a full retrospective transition approach. We are currently evaluating the impact of the new guidance on our consolidated financial statements. We are monitoring the FASB's recent deliberations surrounding a simplified transition approach and are evaluating the practical expedients provided by that approach as well as those already included in the standard. When implemented, the standard is expected to have a material impact as operating leases will be recognized on our consolidated balance sheet, with an increase to both assets and liabilities. The impact on our results of operations is being evaluated. The impact of this ASU is non-cash in nature and will not affect our cash flows.

In January 2017, the FASB issued guidance on simplifying the test for goodwill impairment, ASU No. 2017-04, *Simplifying the Test for Goodwill Impairment*. Under the new standard, goodwill impairment would be measured as the amount by which a reporting unit's carrying value

exceeds its fair value, but not in an amount in excess of the carrying value of goodwill. The new guidance eliminates the requirement to determine goodwill impairment by calculating the implied fair value of goodwill by hypothetically assigning the fair value of a reporting unit to all of its assets and liabilities as if that reporting unit had been acquired in a business combination. The new guidance is to be applied prospectively to impairment tests beginning January 1, 2020, with early adoption permitted. We are currently evaluating when we will adopt the new guidance.

In February 2018, the FASB issued ASU 2018-02, *Reclassification of Tax Effects from Accumulated Other Comprehensive Income*, which allows entities to elect an option to reclassify the stranded tax effects related to the application of the Tax Cuts and Jobs Act from accumulated other comprehensive loss to retained earnings. The guidance is effective January 1, 2019 with early adoption permitted, and can be applied either in the period of adoption or retrospectively to all applicable periods. We are currently evaluating the impact of the new guidance on our consolidated financial statements.

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

FORWARD LOOKING STATEMENTS:

The following management's discussion and analysis of the financial condition and results of operations of CyberOptics Corporation ("we", "us" and "our") contains a number of estimates and predictions that are forward looking statements rather than statements based on historical fact. Among other matters, we discuss (i) our level of anticipated revenues, gross margins, and expenses; (ii) the timing of orders and shipments of our existing products, particularly the SQ3000, our 3D automated optical inspection ("AOI") system; (iii) the timing of initial revenue and projected improvements in gross margins from sales of new products that have been recently introduced, that we have under development or that we anticipate introducing in the future; (iv) the amount of anticipated revenue and potential revenue opportunity from recently introduced new products or potential new products we may launch in the future; (v) our assessment of trends in the general economy and their impact on the markets for our products; and (vi) the impact of currency fluctuations on our operations. Although we have made these statements based on our experience and expectations regarding future events, there may be events or factors that we have not anticipated, and the accuracy of our forward-looking statements and estimates are subject to a number of risks, including those risks identified in our Annual Report on Form 10-K for the year ended December 31, 2017.

RESULTS OF OPERATIONS

General

As a leading global developer and manufacturer of high precision 3D sensors, our strategy is to leverage our 3D sensor technologies in our key vertical markets that consist of the surface mount technology ("SMT"), semiconductor and metrology markets. A key element in our strategy is the continued development and sale of new high precision 3D sensors based on our proprietary multi-reflection suppression ("MRS") technology. We believe that MRS is a break-through optical technology for high precision inspection and metrology, with the potential to expand our markets in the future. Unlike competing technologies, our MRS technology has the ability to inhibit reflections and provide microscopic quality images at production line speeds.

Manufacturing yield challenges as electronics and semiconductors become more complex are driving the need for more precise inspection and metrology. For these reasons, we believe 3D inspection and metrology represents a high-growth segment for both the SMT and semiconductor capital

equipment markets. We expect a growing number of opportunities in the markets for SMT and semiconductor inspection, because our 3D MRS technology platform is well suited for many of these applications, particularly with respect to complex mobile devices. We also anticipate significant opportunities for increased sales of our 3D measurement and inspection products in the emerging market for advanced packaging applications. We are taking advantage of these market trends by deploying our 3D MRS sensor technology in the following products:

- **High-precision 3D sensor subsystems.** We have entered into a mutually exclusive agreement to supply KLA-Tencor with high-precision 3D sensor subsystems for its back-end semiconductor packaging inspection systems. We also have entered into an agreement to supply Nordson-YESTECH with high precision 3D sensor subsystems for its inspection systems serving the SMT market.
- **SQ3000.** Our 3D AOI system, the SQ3000, is designed to expand our presence in SMT and semiconductor markets requiring high precision measurement and inspection. In these markets, identifying defects in products has become highly challenging and critical due to smaller and more complex electronics packaging and increasing component density on circuit boards.
- **SQ3000™ 3D CMM.** The SQ3000™ 3D CMM, which was launched in the second half of 2017, combines automated optical inspection and metrology functionality in a single product. Manufacturers in a variety of industries, including SMT, semiconductor and consumer electronics, can use this product as an in-line or off-line metrology tool to help solve complex manufacturing and product quality challenges.

Revenue from MRS based products increased to \$8.6 million in the six months ended June 30, 2018, an increase of approximately \$1.6 million or 24% from \$7.0 million in the six months ended June 30, 2017. We believe we will be able to increase sales of products based on our MRS technology in the SMT, semiconductor and metrology markets, including the market that requires inspection and metrology for advanced packaging applications. We intend to increase sales of these products by utilizing new original equipment manufacturer ("OEM") partners and system integrators and by expanding direct sales to end-user customers. Revenue from MRS based products is forecasted to grow significantly on a year-over-year basis in the third quarter of 2018, given our favorable order backlog of SQ3000 3D AOI systems at June 30, 2018.

We have significantly advanced our MRS-enabled 3D sensor technology as part of a research initiative aimed at applying our 3D MRS technology to mid-end and front-end semiconductor inspection and the emerging semiconductor advanced packaging market. Multiple semiconductor manufacturers are evaluating working prototypes of MRS-enabled mid-end semiconductor inspection sensors. With three micron pixel resolution, these prototypes can measure feature sizes down to 30 microns accurately and at high speeds. We are targeting one micron resolution (three sigma accuracy) at speeds that would inspect more than 20 300 mm wafers per hour. We believe nominal, initial sales of mid-end semiconductor inspection sensors will be realized later this year, marking an important strategic milestone in the development of what is believed to be a significant long-term opportunity. Sales of mid-end inspection sensors are expected to ramp up in 2019 and beyond.

A \$1.6 million order for MX600 memory module inspection systems was received in the second quarter of 2018, with revenues from this order expected to be recognized in the first quarter of 2019. We are pursuing other MX600 opportunities, but revenues from any orders received this year most likely will not be realized until 2019.

We have continued to invest in our WaferSense® family of products because fabricators of semiconductors and other customers view these products as valuable tools for improving quality, tool uptime and yields. A new sensor for manufacturers of flat panel displays has recently been launched and additional WaferSense applications are currently under development. Strong future sales growth is anticipated for the WaferSense® family of products.

Our backlog was \$13.8 million at June 30, 2018, including the \$1.6 million order for the MX600 systems, an increase from \$12.1 million at March 31, 2018 and \$7.3 million at June 30, 2017. Over the longer term, we believe that anticipated sales growth of our 3D MRS-enabled products and WaferSense products should increase our revenues and net income. We believe that we have the resources required to attain our growth objectives, given our available cash and marketable securities balances totaling \$24.2 million at June 30, 2018.

Revenues

Our revenues decreased by 3% to \$15.9 million in the three months ended June 30, 2018, from \$16.4 million in the three months ended June 30, 2017. Our revenues increased by 6% to \$30.0 million in the six months ended June 30, 2018, from \$28.3 million in the six months ended June 30, 2017. The following table sets forth revenues by product line for the three and six months ended June 30, 2018 and 2017:

(In thousands)	Three Months Ended June 30,		Six Months Ended June 30,	
	2018	2017	2018	2017
High Precision 3D and 2D Sensors	\$ 5,253	\$ 5,635	\$ 10,308	\$ 9,539
Semiconductor Sensors	3,940	3,153	7,101	5,470
Inspection Systems, Metrology Products and Services	6,661	7,621	12,565	13,320
Total	\$ 15,854	\$ 16,409	\$ 29,974	\$ 28,329

Revenue from sales of high precision 3D and 2D sensors decreased by \$382,000 or 7% to \$5.3 million in the three months ended June 30, 2018, from \$5.6 million in the three months ended June 30, 2017. Revenue from sales of high precision 3D and 2D sensors increased by \$769,000 or 8% to \$10.3 million in the six months ended June 30, 2018, from \$9.5 million in the six months ended June 30, 2017. The revenue decrease in the three months ended June 30, 2018, primarily resulted from lower sales of legacy 2D LaserAlign sensors. Revenue from sales of 3D MRS-enabled sensors were down slightly in the three months ended June 30, 2018, when compared to the three months ended June 30, 2017, reflecting normal variability in quarterly sales. The revenue increase in the six months ended June 30, 2018 resulted from a 59% increase in sales of 3D MRS-enabled sensors, offset in part by a reduction in sales of legacy 2D LaserAlign sensors. Sales of high

precision 3D and 2D sensors are dependent on the success of our OEM partners selling products that incorporate our sensors. We believe sales of our new 3D MRS enabled sensors will represent an increasing percentage of our total high precision 3D and 2D sensor sales in the future. Quarterly sales of high precision 3D and 2D sensors are prone to significant fluctuations, both sequentially and on a year-over-year basis.

Revenue from sales of semiconductor sensors, principally our WaferSense product line, increased by \$787,000 or 25% to \$3.9 million in the three months ended June 30, 2018, from \$3.2 million in the three months ended June 30, 2017. Revenue from sales of semiconductor sensors, principally our WaferSense product line, increased by \$1.6 million or 30% to \$7.1 million in the six months ended June 30, 2018, from \$5.5 million in the six months ended June 30, 2017. The sales increase reflects favorable conditions in the market for semiconductor equipment and manufacturing, the growing acceptance of our WaferSense products as important productivity enhancement tools by semiconductor manufacturers and improved account penetration at major semiconductor manufacturers and capital equipment suppliers. We anticipate that the benefits from growing market awareness and new product introductions will lead to additional WaferSense sales in future periods.

Revenue from sales of inspection systems, metrology products and services decreased by \$960,000 or 13% to \$6.7 million in the three months ended June 30, 2018, from \$7.6 million in the three months ended June 30, 2017. Revenue from sales of inspection systems, metrology products and services decreased by \$755,000 or 6% to \$12.6 million in the six months ended June 30, 2018, from \$13.3 million in the six months ended June 30, 2017. The sales decrease in the three months ended June 30, 2018 resulted from a 6% decrease in sales of 3D AOI products, reflecting normal variability in quarterly sales and lower sales of legacy products. The sales decrease in the six months ended June 30, 2018 primarily resulted from lower sales of legacy products. Sales of 3D AOI products were up modestly in the six months ended June 30, 2018, when compared to the six months ended June 30, 2017. Revenue from sales of inspection and metrology products in the three and six months ended June 30, 2018 included approximately \$1.0 million of metrology-related X-ray scanning systems. Revenue from sales of 3D AOI products are forecasted to increase significantly in the third quarter of 2018 on a year-over-year basis, given the strong order backlog of SQ3000 3D AOI systems at June 30, 2018.

We believe a growing number of companies are transitioning from 2D AOI to 3D AOI systems to meet the increasingly demanding product inspection requirements in the semiconductor, electronics and industrial markets. We believe sales of our new 3D MRS enabled AOI and metrology products, including the SQ3000 and SQ3000™ 3D CMM, will represent an increasing percentage of our total inspection system and metrology product sales in the future. We expect that the competitive advantages of our unique 3D MRS technology will provide us with an opportunity to capture significant market share in the 3D AOI inspection systems market.

Export revenue totaled \$11.3 million or 71% of total revenue in the three months ended June 30, 2018, compared to \$12.1 million or 74% of total revenue in the three months ended June 30, 2017. Export revenue totaled \$21.5 million or 72% of total revenue in the six months ended June 30, 2018, compared to \$21.5 million or 76% of total revenue in the six months ended June 30, 2017. Export revenue as a percentage of total revenue was lower in the three and six months ended June 30, 2018, when compared to the three and six months ended June 30, 2017. The lower percentage of export revenue was due to a decrease in sales of legacy 2D AOI and SPI inspection system products, a higher proportion of which are generally sold outside the United States as compared to our other products, and an increase in sales of X-ray systems, a higher proportion of which are generally sold in the United States.

Cost of Revenues and Gross Margin

Cost of revenues decreased by \$86,000 or 1% to \$8.6 million in the three months ended June 30, 2018, from \$8.7 million in the three months ended June 30, 2017. Cost of revenues increased by \$1.3 million or 9% to \$16.5 million in the six months ended June 30, 2018, from \$15.2 million in the six months ended June 30, 2017. The decrease in cost of revenues in the three months ended June 30, 2018,

The increase in cost of revenues in the six months ended June 30, 2018,

Items included in cost of revenues that fluctuate with the level of sales include raw materials, direct labor and factory overhead costs.

Total gross margin as a percentage of revenue was 46% in the three months ended June 30, 2018, compared to 47% in the three months ended June 30, 2017. Total gross margin as a percentage of revenue was 45% in the six months ended June 30, 2018, compared to 46% in the six months ended June 30, 2017. The reduction in gross margin percentage was mainly due to pricing pressures on 2D and 3D inspection systems in the broader SMT market, offset in part by a change in mix of products sold. Sales of higher margin WaferSense products represented a larger percentage of our total revenue in the three and six months ended June 30, 2018, compared to the three and six months ended June 30, 2017.

Our markets are highly price competitive, particularly the electronic assembly market. As a result, we have experienced continual pressure on our gross margins. We compensate for pressure to reduce the price of our products by introducing new products with more features and improved performance and through manufacturing cost reduction programs. Sales of many products that we have recently introduced or are about to introduce, including our current and future SQ3000 3D AOI products and SQ3000™ 3D CMM products, 3D MRS sensors and WaferSense sensor products, have, or are expected to have, more favorable gross margins than many of our existing products.

Operating Expenses

Research and development expenses were \$2.2 million or 14% of revenue in the three months ended June 30, 2018, compared to \$2.0 million or 12% of revenue in the three months ended June 30, 2017. Research and development expenses were \$4.4 million or 15% of revenue in the six months ended June 30, 2018, compared to \$3.9 million or 14% of revenue in the six months ended June 30, 2017. The increase in research and development expenses was the result of higher wages due to hiring of additional employees, pay increases for existing employees and bonus accruals for employees who work in research and development. Current research and development expenditures are primarily focused on continued development of our MRS technology, including 3D sensor subsystems, commercialization of a sensor for mid-end semiconductor inspection, and continued development of new applications for our WaferSense product line.

Selling, general and administrative expenses were \$4.1 million or 26% of revenue in the three months ended June 30, 2018, compared to \$4.1 million or 25% of revenue in the three months ended June 30, 2017. Selling, general and administrative expenses were \$8.5 million or 28% of revenue in the six months ended June 30, 2018, compared to \$8.0 million or 28% of revenue in the six months ended June 30, 2017. In the three months ended June 30, 2018, higher bonus accruals were offset in part by lower commissions paid to outside sales representatives, reflecting the 3% decrease in revenues when compared to the three months ended June 30, 2017. The increase in selling, general and administrative expenses in the six months ended June 30, 2018, was due to additional spending to strengthen our global sales and marketing efforts, and higher bonus accruals.

Interest Income and Other

Interest income and other includes interest earned on investments and gains and losses from foreign currency transactions, including intercompany financing transactions associated with our subsidiaries in the United Kingdom, Singapore and China. We recognized gains from foreign currency transactions, primarily intercompany financing transactions, of \$96,000 in the three months ended June 30, 2018, compared to losses of \$50,000 in the three months ended June 30, 2017. We recognized gains from foreign currency transactions, primarily intercompany financing transactions, of \$139,000 in the six months ended June 30, 2018, compared to losses of \$155,000 in the six months ended June 30, 2017.

Income Taxes

We recorded income tax expense of \$230,000 in the three months ended June 30, 2018, compared to income tax expense of \$539,000 in the three months ended June 30, 2017. We recorded income tax expense of \$147,000 in the six months ended June 30, 2018, compared to income tax expense of \$126,000 in the six months ended June 30, 2017. Our income tax provision in the six months ended June 30, 2018, reflected an effective income tax rate of approximately 25%, and included \$33,000 of excess tax benefits from employee share-based payments. Our income tax provision in the six months ended June 30, 2017, reflected an effective income tax rate of approximately 33%, and included \$208,000 of excess tax benefits from employee share-based payments. Excess tax benefits recognized in the three months ended June 30, 2018 and the three months ended June 30, 2017 were inconsequential. The decrease in our effective income tax rate in the six months ended June 30, 2018 was primarily due to the new lower tax rates provided for in the Tax Cuts and Jobs Act passed by the U.S. Congress in December 2017.

We have significant deferred tax assets as a result of temporary differences between taxable income on our tax returns and U.S. GAAP income, research and development tax credit carry forwards and federal, state and foreign net operating loss carry forwards. A deferred tax asset generally represents future tax benefits to be received when temporary differences previously reported in our consolidated financial statements become deductible for income tax purposes, when net operating loss carry forwards could be applied against future taxable income, or when tax credit carry forwards are utilized on our tax returns. We assess the realizability of our deferred tax assets and the need for a valuation allowance based on the guidance provided in current financial accounting standards.

Significant judgment is required in determining the realizability of our deferred tax assets. The assessment of whether valuation allowances are required considers, among other matters, the nature, frequency and severity of any current and cumulative losses, forecasts of future profitability, the duration of statutory carry forward periods, our experience with loss carry forwards not expiring unused and tax planning alternatives. In analyzing the need for valuation allowances, we considered our history of cumulative operating results for income tax purposes over the past three years in each of the tax jurisdictions in which we operate, our financial performance in recent quarters, statutory carry forward periods and tax planning alternatives. In addition, we considered both our near-term and long-term financial outlook. After considering all available evidence (both positive and negative), we concluded that recognition of valuation allowances for substantially all of our U.S. and Singapore deferred tax assets was not required at June 30, 2018.

The Inland Revenue Authority of Singapore is reviewing of our 2016 and 2015 income tax returns. We do not presently anticipate that the outcome of these audits will have a significant impact on our financial position or results of operations.

Backlog

Backlog totaled \$13.8 million at June 30, 2018, including the \$1.6 million order for MX600 systems, \$12.1 million at March 31, 2018 and \$7.3 million at June 30, 2017. Our products are typically shipped two weeks to two months after receipt of an order. Sales of some inspection system products may require customer acceptance due to performance or other acceptance criteria included in the terms of sale. For these product sales, revenue is recognized at the time of customer acceptance. Our backlog at any time may vary significantly based on the timing of orders from OEM customers. In some instances, our OEM customers may place orders for shipment of products covering periods of nine months or longer. Accordingly, backlog may not be an accurate indicator of performance in the future.

Liquidity and Capital Resources

Our cash and cash equivalents increased by \$1.1 million in the six months ended June 30, 2018. Cash provided by operating activities of \$2.0 million, proceeds from sales and maturities of marketable securities totaling \$4.0 million and proceeds from the exercise of stock options of \$251,000, were offset in part by purchases of marketable securities of \$4.5 million and purchases of fixed assets and capitalized patent costs totaling \$678,000. Our cash and cash equivalents fluctuate in part because of sales and maturities of marketable securities and investment of cash balances in marketable securities. Accordingly, we believe the combined balances of cash and marketable securities provide a more reliable indication of our available liquidity than cash balances alone. Combined balances of cash and marketable securities increased by approximately \$1.5 million to \$24.2 million as of June 30, 2018 from \$22.7 million as of December 31, 2017.

Operating activities provided \$2.0 million of cash in the six months ended June 30, 2018. The amount of cash provided by operations was favorably impacted by our net income of \$567,000. Included in net income were non-cash expenses totaling \$1.7 million for depreciation and amortization, provision for doubtful accounts, deferred income taxes, non-cash gains from foreign currency transactions, stock-based compensation costs and a small unrealized loss on our available-for-sale equity security. Changes in operating assets and liabilities providing cash in the six months ended June 30, 2018 included an increase in accounts payable of \$2.1 million, an increase in advance customer payments of \$321,000 and an increase in accrued expenses of \$556,000. Changes in operating assets and liabilities using cash in the six months ended June 30, 2018 included an increase in accounts receivable of \$2.0 million, an increase in inventories of \$821,000 and an increase in other assets of \$363,000. Accounts payable increased due to the timing of inventory purchases, with more materials being acquired in the later part of the quarter. The timing of these purchases resulted in a higher accounts payable balance at June 30, 2018. Advance customer payments increased due to receipt of deposits from customers for metrology products we expect to ship in the second half of 2018. Accrued expenses were up due to 2018 bonus accruals. Accounts receivable increased due to the higher sales level in the second quarter of 2018, when compared to the fourth quarter of 2017. Inventory increased slightly due to changes in anticipated product sales mix. Other assets were up due to payments for supplier deposits, insurance and services that will be charged to expense in the future.

Investing activities used \$1.1 million of cash in the six months ended June 30, 2018. Changes in the level of investment in marketable securities, resulting from the purchases, sales and maturities of those securities, used \$440,000 of cash in the six months ended June 30, 2018. We also used \$678,000 of cash in the six months ended June 30, 2018 to purchase fixed assets and to fund capitalized patent costs.

Financing activities from the exercise of stock options provided \$251,000 of cash in the six months ended June 30, 2018.

At June 30, 2018, we did not have any relationships with unconsolidated entities or financial partnerships, such as entities often referred to as structured finance or special purpose entities (which are used to establish off-balance sheet arrangements).

There have been no significant changes to our contractual commitments in the six months ended June 30, 2018 other than purchase commitments for inventory, which can vary based on the volume of product sales and resulting inventory requirements.

We lease a 50,724 square foot mixed office and warehouse facility built to our specifications in Golden Valley, Minnesota, which functions as our corporate headquarters and primary manufacturing facility for our sensor and semiconductor products. We also lease a 10,165 square foot facility in Bloomington, Minnesota. The leases for both spaces expire on December 31, 2018. In May 2018, we finalized an amendment to the lease for our current Golden Valley, Minnesota facility that will become effective on January 1, 2019. The amendment provides that we will lease 61,208 square feet of space in our current location through July 31, 2026. The increase in the size of the facility will allow us to conduct the operations currently carried out at our Bloomington, Minnesota facility in our current Golden

Valley, Minnesota location. Future lease payments due under the lease amendment for the period from January 1, 2019 through July 31, 2026 are approximately \$7.9 million. We anticipate that our annual rental payments will increase by approximately \$200,000 when the lease amendment becomes effective in January 2019.

Our Board of Directors has authorized a \$3.0 million share repurchase program. Under this program, \$2.8 million remains available for future repurchases of shares of common stock. The common stock may be acquired from time to time in open market transactions, block purchases and other transactions complying with the Securities and Exchange Commission's Rule 10b-18. The share repurchase program will expire on September 30, 2018. During the six months ended June 30, 2018, no shares were repurchased under this program.

Our cash, cash equivalents and marketable securities totaled \$24.2 million at June 30, 2018. We believe that our cash, cash equivalents and marketable securities, coupled with anticipated cash flow from operations, will be adequate to fund our cash flow needs for the foreseeable future.

CRITICAL ACCOUNTING POLICIES AND ESTIMATES:

The preparation of the financial information contained in this Form 10-Q requires us to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses, and the related disclosure of contingent assets and liabilities. On an on-going basis, we evaluate these estimates, including those estimates related to revenue recognition, bad debts, warranty obligations, inventory valuation, intangible assets and income taxes. We base these estimates on historical experience and on various other assumptions that we believe are reasonable under the circumstances. These estimates form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Our actual results may differ from these estimates under different assumptions or conditions. These critical accounting policies are discussed in more detail in the Management's Discussion and Analysis of Financial Condition and Results of Operations contained in our Annual Report on Form 10-K for the year ended December 31, 2017.

Change in Revenue Accounting

Effective January 1, 2018, we adopted ASU No. 2014-9, "Revenue from Contracts with Customers" and the related amendments ("Topic 606") using the modified retrospective method. Topic 606 was applied to all uncompleted contracts by recognizing the cumulative effect of initially applying Topic 606 as an adjustment to the opening balance of equity at January 1, 2018. Therefore, the comparative financial information for the three and six months ended June 30, 2017 has not been adjusted and continues to be reported under Topic 605, "Revenue Recognition".

Accounting for contracts recognized over time involves the use of various techniques to estimate total contract revenue and costs. Contract estimates are based on various assumptions to project the outcome of future events that may span multiple years. We review and update our contract-related estimates regularly, and record adjustments as needed.

The adoption of Topic 606 caused changes for 1) the impact of volume discounts that represent a material right which will now be estimated and recognized over the contract life rather than on a prospective basis, and 2) revenue will be recognized over time as the products are manufactured under certain contracts where our product is customized rather than at shipment. These changes increased our revenues in the three and six months ended June 30, 2018 by \$84,000 and \$109,000, respectively, when compared to revenue recognition under Topic 605 (see Note 16).

Performance Obligations

Under Topic 606, revenue is measured based on consideration specified in the contract with a customer. A performance obligation is a promise in a contract to transfer a distinct good or service to the customer and is the unit

of account in Topic 606. Revenue from all customers, including distributors, is recognized when a performance obligation is satisfied by transferring control of a product or service to a customer. Amounts billed to customers for shipping and handling are included in revenue. Taxes collected from customers and remitted to governmental authorities are excluded from revenue on the net basis of accounting. Accounts receivable are due under normal trade terms, typically 90 days or less.

Sales involving multiple performance obligations typically include the sale of an inspection system or metrology product, installation and training, and in some cases, an extended warranty. When a sale involves multiple performance obligations, we account for individual products and services separately if the customer can benefit from the product or service on its own or with other resources that are readily available to the customer and the product or service are separately identifiable from other promises in the arrangement. The consideration is allocated between separate performance obligations in proportion to their estimated stand-alone selling price. If the stand-alone selling price is not directly observable, we use the cost plus margin approach to estimate stand-alone selling price. Costs related to products delivered are recognized in the period revenue is recognized, including product warranties for periods ranging from 1 to 3 years (see Note 7).

Our performance obligations are satisfied at a point in time or over time as work progresses. Revenue from products and services transferred to customers at a point in time in the three and six months ended June 30, 2018 totaled \$14.7 million and \$28.0 million, respectively, which represented 93% of our total revenue in both periods. Revenue from these contracts is recognized when obligations under the terms of the contract with our customer are satisfied; generally with the transfer of control upon shipment. Sales of some products may require customer acceptance due to performance or other acceptance criteria that is considered more than a formality. For these product sales, revenue is recognized upon notification of customer acceptance.

Revenue from products and services transferred to customers over time in the three and six months ended June 30, 2018 totaled \$1.1 million and \$2.0 million, respectively, which represented 7% of our total revenue in both periods. Periodically sensor product arrangements with our original equipment manufacturers (OEM's) will create an asset with no alternative use and include an enforceable right to payment. For these arrangements control is transferred over the manufacturing process; therefore, revenue is recognized over time utilizing an input method based on actual costs incurred in the manufacturing process to date relative to total expected production costs. For certain longer duration 3D scanning service projects, we progress bill as the services are performed. These arrangements create an asset with no alternative use and include an enforceable right to payment. For these arrangements, control is transferred over the hours incurred to complete the scanning project; therefore, revenue is recognized over time utilizing an input method based on actual hours incurred relative to total projected project hours. For maintenance and extended warranty contracts, revenue is recognized over time on a straight-line basis over the term of the contract as the customer simultaneously receives and consumes the benefits of the coverage.

ITEM 3 - QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Foreign Currency Exchange Risk

Most of our international export sales are negotiated, invoiced and paid in U.S. dollars. We manufacture our inspection system products in Singapore and a portion of our raw material purchases are denominated in Singapore dollars. We also have research and development and sales personnel located in Singapore and sales offices located in other parts of the world. Although currency fluctuations do not significantly affect our revenue, they can impact our costs and influence the price competitiveness of our products and the willingness of existing and potential customers to purchase these products. A hypothetical 5% appreciation or depreciation in the U.S. dollar relative to the reporting currencies of our foreign subsidiaries in 2017 would have affected the foreign-currency denominated operating expenses of these subsidiaries by approximately \$500,000. We cannot accurately predict future exchange rates or the overall impact of future exchange rate fluctuations on our business, results of operations and financial condition.

As of June 30, 2018, we did not have any open foreign exchange forward contracts to hedge our exposure to fluctuations in foreign currency exchange rates. We recognized gains from foreign currency transactions (which were primarily intercompany financing transactions) of \$139,000 in the six months ended June 30, 2018. Balance sheet related foreign currency translation adjustments are recorded in accumulated other comprehensive loss, which is a component of shareholders' equity. Accordingly, these adjustments do not impact our net income.

Interest Rate Risk

We invest excess funds not required for current operations in marketable securities. Our investments in marketable securities consist of U.S. Government or U.S. Government agency securities, various tax exempt securities or certain approved corporate instruments with maturities of five years or less. The average maturity of securities in our investment portfolio does not exceed 18 months. We also hold an investment in a certain marketable equity security issued by a public company. As of June 30, 2018, our portfolio of marketable securities had a weighted average effective maturity of approximately 1.1 years. All marketable securities are classified as available for sale and carried at fair value. We estimate that a hypothetical 1% increase in market interest rates would result in an approximate \$180,000 decrease in the market value of our portfolio of marketable securities. If such a rate increase occurred, our net income would only be impacted if securities were sold prior to maturity.

ITEM 4 - CONTROLS AND PROCEDURES

a. Under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, we evaluated the effectiveness of the design and operation of our disclosure controls and procedures (as defined in Rule 13a-15(e) under the Securities Exchange Act of 1934 (the “Exchange Act”). Based upon that evaluation, the Chief Executive Officer and Chief Financial Officer concluded that, as of the end of the period covered by this report, our disclosure controls and procedures were effective in ensuring that information required to be disclosed by us in the reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in applicable rules and forms and that such information is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, in a manner that allows timely decisions regarding required disclosure.

b. There was no change in our internal control over financial reporting (as defined in Rule 13a-15(f) under the Exchange Act) that occurred during the period covered by this quarterly report 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

None.

ITEM 1A – RISK FACTORS

In addition to the other information set forth in this report, you should carefully consider the factors discussed in Part I “Item 1A. Risk Factors” in our Annual Report on Form 10-K for the year ended December 31, 2017, which could materially affect our business, financial condition or future results.

ITEM 2 – UNREGISTERED SALES OF EQUITY SECURITIES, USE OF PROCEEDS AND ISSUER PURCHASES OF EQUITY SECURITIES

None.

ITEM 3 – DEFAULTS UPON SENIOR SECURITIES

None.

ITEM 4 – MINE SAFETY DISCLOSURES

None.

ITEM 5 – OTHER INFORMATION

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None.

ITEM 6 -EXHIBITS

10.1 CyberOptics Corporation 1992 Employee Stock Purchase Plan (as amended and restated through May 10, 2018) (incorporated by reference to Exhibit 4.1 to the CyberOptics Corporation Form 8-K report dated May 15, 2018)*

10.2 Third Amendment to Lease ("Amendment") effective as of May 17, 2018, by and between GOLDEN HILLS PARK I PROPERTY OWNER, LLC and CYBEROPTICS CORPORATION.

31.1: Certification of Chief Executive Officer pursuant to Rule 15d-14(a) (17 CFR 240.15d-14(a)) and Section 302 of the Sarbanes Oxley Act of 2002

31.2: Certification of Chief Financial Officer pursuant to Rule 15d-14(a) (17 CFR 240.15d-14(a)) and Section 302 of the Sarbanes Oxley Act of 2002

32: Certification of Chief Executive Officer and Chief Financial Officer Pursuant to Section 906 of the Sarbanes Oxley Act of 2002

101: Financial statements formatted in Inline Extensible Business Reporting Language: (i) the Condensed Consolidated Balance Sheets, (ii) the Condensed Consolidated Statement of Operations, (iii) the Condensed Consolidated Statements of Comprehensive Income, (iv) the Condensed Consolidated Statements of Cash Flows and (v) the Notes to the Interim Condensed Consolidated Financial Statements

* Management Contract or Compensatory Plan or Arrangement

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SIGNATURES

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

CYBEROPTICS CORPORATION

/s/ Subodh Kulkarni

By Subodh Kulkarni, President and Chief Executive Officer
(Principal Executive Officer and Duly Authorized Officer)

/s/ Jeffrey A. Bertelsen

By Jeffrey A. Bertelsen, Vice President, Chief Financial

Officer and Chief Operating Officer

(Principal Accounting Officer and Duly Authorized Officer)

Dated: August 7, 2018