UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-Q

FORM 10-	-Q	
(Mark One)		
☑ QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE S	SECURITIES EXCHANGE ACT OF 19	34
For the quarterly period ended March 31, 2018		
or		
☐ TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE S	SECURITIES EXCHANGE ACT OF 19	034
For the transition period from to Commission File Number	: 001-35435	
Proto Labs,	Inc.	
(Exact name of registrant as speci	fied in its charter)	
Minnesota (State or other jurisdiction of incorporation or organization)	41-1939628 (I.R.S. Employer Identifica	ation No.)
5540 Pioneer Creek Drive Maple Plain, Minnesota (Address of principal executive offices)	55359 (Zip Code)	
(763) 479-3680 (Registrant's telephone number, in		
Not Applicabl (Former name, former address and former fiscal		
Indicate by check mark whether the registrant (1) has filed all reports required to 1934 during the preceding 12 months (or for such shorter period that the registrant was requirements for the past 90 days. \square Yes \square No		
Indicate by check mark whether the registrant has submitted electronically and prequired to be submitted and posted pursuant to Rule 405 of Regulation S-T during the required to submit and post such files). \square Yes \square No		
Indicate by check mark whether the registrant is a large accelerated filer, an accelerating growth company. See the definitions of "large accelerated filer," ["accelerate company" in Rule 12b-2 of the Exchange Act.		
Large accelerated filer	Accelerated filer	
Non-accelerated filer \Box (Do not check if a smaller reporting company \Box	pany) Emerging growth company	
If an emerging growth company, indicate by check mark if the registrant has election are defined or revised financial accounting standards provided pursuant to Section 13(a) of the		od for complying with any
Indicate by check mark whether the registrant is a shell company (as defined in	Rule 12b-2 of the Exchange Act). □Yes ☑	lNo
Indicate the number of shares outstanding of each of the issuer's classes of common Stock, par value \$0.001 per share, were outstanding at April 26, 2018.	non stock, as of the latest practicable date:	26,934,901 shares of

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PART I. FINANCIAL INFORMATION

Item 1. Financial Statements

Proto Labs, Inc. Consolidated Balance Sheets (In thousands, except share and per share amounts)

		March 31, 2018 (Unaudited)	D	ecember 31, 2017
Assets	,	Chadarea		
Current assets				
Cash and cash equivalents	\$	45,095	\$	36,707
Short-term marketable securities	-	53,467	•	57,424
Accounts receivable, net of allowance for doubtful accounts of \$788 and \$757 as of March 31, 2018 and		, -		_ ,
December 31, 2017, respectively		58,464		51,503
Inventory		9,506		11,271
Prepaid expenses and other current assets		8,106		6,267
Income taxes receivable		-		1,832
Total current assets		174,638		165,004
Property and equipment, net		187,863		166,440
Goodwill		128,752		128,504
Other intangible assets, net		19,319		19,084
Long-term marketable securities		30,667		37,034
Other long-term assets		2,670		2,672
Total assets	\$	543,909	\$	518,738
Liabilities and shareholders' equity Current liabilities				
Accounts payable	\$	18,358	\$	15,876
Accrued compensation		9,736		12,100
Accrued liabilities and other		10,809		8,408
Short-term debt obligations		-		5,000
Income taxes payable		2,962		2,371
Total current liabilities		41,865		43,755
Long-term income taxes payable		2,181		2,181
Long-term deferred tax liabilities		7,582		6,966
Other long-term liabilities		4,605		4,621
Total liabilities		56,233		57,523
Shareholders' equity				
Preferred stock, \$0.001 par value, authorized 10,000,000 shares; issued and outstanding 0 shares as of each of March 31, 2018 and December 31, 2017		-		-
Common stock, \$0.001 par value, authorized 150,000,000 shares; issued and outstanding 26,931,546 and		27		27
26,828,651 shares as of March 31, 2018 and December 31, 2017, respectively Additional paid-in capital		27 246,282		27 241,725
		,		241,725
Retained earnings		244,208 (2,841)		(5,234)
Accumulated other comprehensive loss				
Total shareholders' equity	ф	487,676	ф	461,215
Total liabilities and shareholders' equity	\$	543,909	\$	518,738

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

Proto Labs, Inc. Consolidated Statements of Comprehensive Income (In thousands, except share and per share amounts) (Unaudited)

	Three Mor Marc		nded
	2018		2017
Statements of Operations:			
Revenue	\$ 107,745	\$	80,167
Cost of revenue	49,837		34,894
Gross profit	 57,908	-	45,273
Operating expenses			
Marketing and sales	16,572		12,987
Research and development	6,665		5,823
General and administrative	 12,943		8,781
Total operating expenses	 36,180		27,591
Income from operations	21,728		17,682
Other income, net	 178		315
Income before income taxes	21,906		17,997
Provision for income taxes	 3,855		5,797
Net income	\$ 18,051	\$	12,200
Net income per share:			
Basic	\$ 0.67	\$	0.46
Diluted	\$ 0.66	\$	0.46
Zilatea		-	
Shares used to compute net income per share:			
Basic	26,879,388		26,466,731
Diluted	27,197,099		26,599,200
Comprehensive Income (net of tax)			
Comprehensive income	\$ 20,444	\$	13,385

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

Proto Labs, Inc. Consolidated Statements of Cash Flows (In thousands) (Unaudited)

	Three Months Ended March 31,			ded
		2018		2017
Operating activities				
Net income	\$	18,051	\$	12,200
Adjustments to reconcile net income to net cash provided by operating activities:				
Depreciation and amortization		6,259		4,250
Stock-based compensation expense		2,307		1,716
Deferred taxes		612		394
Amortization of held-to-maturity securities		163		301
Other		106		(56)
Changes in operating assets and liabilities:				
Accounts receivable		(4,013)		(4,777)
Inventories		807		435
Prepaid expenses and other		(1,707)		(688)
Income taxes		2,387		5,051
Accounts payable		2,291		319
Accrued liabilities and other		(1,118)		(353)
Net cash provided by operating activities		26,145		18,792
Investing activities				
Purchases of property and equipment		(25,513)		(7,812)
Cash used for acquisitions, net of cash acquired		(90)		(7,012)
Purchases of marketable securities		(3,389)		(16,520)
Proceeds from maturities of marketable securities		13,551		10,755
Net cash used in investing activities		(15,441)		(13,577)
Financing activities				
Payments on debt		(5,000)		-
Proceeds from exercises of stock options and other		2,252		194
Repurchase of common stock		-		(2,662)
Net cash used in financing activities		(2,748)		(2,468)
Effect of exchange rate changes on cash and cash equivalents		432		346
Net increase in cash and cash equivalents	-	8,388		3,093
Cash and cash equivalents, beginning of period		36,707		68,795
Cash and cash equivalents, end of period	\$	45,095	\$	71,888

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

Note 1 – Basis of Presentation

The unaudited interim Consolidated Financial Statements of Proto Labs, Inc. (Protolabs, the Company, we, us or our) have been prepared in accordance with accounting principles generally accepted in the United States of America (U.S. GAAP) for interim financial information and with the instructions to Form 10-Q and Article 10 of Regulation S-X. In the opinion of management, the accompanying financial statements reflect all adjustments necessary for a fair presentation of the Company's statements of financial position, results of operations and cash flows for the periods presented. Except as otherwise disclosed herein, these adjustments consist of normal, recurring items. Operating results for interim periods are not necessarily indicative of results that may be expected for the fiscal year as a whole.

The preparation of the financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities, revenues, expenses, and the related disclosures at the date of the financial statements and during the reporting period. Actual results could materially differ from these estimates. For further information, refer to the audited Consolidated Financial Statements and Notes thereto included in the Company's Annual Report on Form 10-K for the year ended December 31, 2017 as filed with the Securities and Exchange Commission (SEC) on February 23, 2018.

The accompanying Consolidated Balance Sheet as of December 31, 2017 was derived from the audited Consolidated Financial Statements but does not include all disclosures required by U.S. GAAP for a full set of financial statements. This Form 10-Q should be read in conjunction with the Company's Consolidated Financial Statements and Notes included in the Annual Report on Form 10-K filed on February 23, 2018 as referenced above.

Note 2 – Recent Accounting Pronouncements

Recently Adopted Accounting Pronouncements

During the first quarter of 2018, the Company adopted the Financial Accounting Standards Board (FASB) Accounting Standards Update (ASU) 2014-09, *Revenue from Contracts with Customers* (ASC 606). This ASU is a comprehensive new revenue recognition model that requires a company to recognize revenue from the transfer of goods or services to customers in an amount that reflects the consideration that the entity expects to receive in exchange for those goods or services. The Company has adopted the new revenue standard using the modified retrospective approach. The Company manufactures parts that have no alternative use to the Company since the parts are custom made to specific customer orders, and the Company believes there is a legally enforceable right to payment for performance completed to date on these manufactured parts. For those manufactured parts that meet these two criteria, the Company will recognize revenue over time. The transition adjustment recorded was an increase of \$1.5 million to the Company's retained earnings balance as of January 1, 2018.

During the fourth quarter of 2017, the Company early adopted ASU 2017-01, *Business Combinations*, which is intended to clarify the definition of a business to assist with evaluating whether transactions should be accounted for as acquisitions or disposals of assets or businesses. The adoption of this guidance did not have a material impact on the Company's consolidated financial statements.

During the first quarter of 2018, the Company adopted ASU 2017-09, *Compensation – Stock Compensation*, which is intended to provide clarity and reduce diversity in practice as well as cost and complexity when applying the guidance to a change to the terms or conditions of a share-based payment award. The adoption of this guidance did not have a material impact on the Company's consolidated financial statements.

Recently Issued Accounting Pronouncements

In February 2016, the FASB issued ASU 2016-02, *Leases*, which introduces the balance sheet recognition of lease assets and lease liabilities by lessees for those leases classified as operating leases under previous guidance. The guidance will be effective for annual reporting periods beginning after December 15, 2018 and interim periods within those fiscal years with early adoption permitted. The Company is evaluating the impact of the future adoption of this standard on its consolidated financial statements, but because the Company owns a majority of its buildings and significant assets, it does not expect the impact to be material.

In January 2017, the FASB issued ASU 2017-04, *Intangibles – Goodwill and Other*, which is intended to simplify the subsequent measurement of goodwill. This guidance will be effective for impairment tests in fiscal years beginning after December 15, 2019 and interim periods within those fiscal years with early adoption permitted. The Company is evaluating the impact of future adoption of this guidance on its consolidated financial statements, but does not expect the impact to be material.

Note 3 - Revenue

The Company's significant accounting policies are disclosed in Note 2 to the Consolidated Financial Statements included in its Annual Report on Form 10-K for the year ended December 31, 2017. Significant changes to the Company's accounting policies as a result of adopting Accounting Standards Codification (ASC) 606 are discussed below:

Revenue Recognition

The Company provides quality prototyping and on-demand manufacturing services at unprecedented speeds. As a result, the majority of revenue recognized in a reporting period is based on completed, invoiced contracts. The Company accounts for revenue in accordance with ASC 606, which the Company adopted on January 1, 2018, using the modified retrospective method. Results for reporting periods beginning after January 1, 2018 are presented under ASC 606, while prior period amounts are not adjusted and continue to be reported in accordance with the Company's historic accounting under ASC 605. The Company recorded a net increase to its retained earnings balance on January 1, 2018 of \$1.5 million due to the cumulative impact of adopting ASC 606. The impact of adopting ASC 606 was to increase revenue \$0.4 million and cost of revenue of \$0.2 million for the three months ended March 31, 2018, and to increase accounts receivable \$2.9 million and decrease inventory \$1.3 million as of March 31, 2018.

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 ASC 606. The majority of the Company's CNC machining, 3D printing, and sheet metal contracts have a single performance obligation. The majority of the Company's injection molding contracts have multiple performance obligations including one obligation to produce the mold and a second obligation to produce parts. For injection molding contracts with multiple performance obligations, we allocate revenue to each performance obligation based on its relative standalone selling price. We generally determine standalone selling price based on the price charged to customers.

The Company manufactures parts that have no alternative use to the Company since the parts are custom made to specific customer orders, and the Company believes there is a legally enforceable right to payment for performance completed to date on these manufactured parts. For manufactured parts that meet these two criteria, the Company will recognize revenue over time. Revenue is recognized over time using the input method based on time in production to measure progress toward satisfying performance obligations.

Revenue by geographic region for the three months ended March 31, 2018 and 2017 was as follows:

	Three Mo	Three Months Ended March 31,						
(in thousands)	2018		2017					
Revenue:								
United States	\$ 8	4,167 \$	60,176					
Europe	1	9,945	16,999					
Japan		3,633	2,992					
Total revenue	\$ 10	7,745 \$	80,167					

Revenue by product line for the three months ended March 31, 2018 and 2017 was as follows:

		Three Months E	nded I	March 31,
(in thousands)		2018		2017
Revenue:				
Injection Molding	\$	51,343	\$	47,916
CNC Machining		36,731		21,972
3D Printing		12,325		10,085
Sheet Metal		6,241		-
Other Revenue		1,105		194
Total revenue	\$	107,745	\$	80,167

The Company generally expenses sales commissions when incurred because the amortization period would have been one year or less. These costs are recorded within marketing and sales expenses. The Company does not disclose the value of unsatisfied performance obligations for contracts with an original expected length of one year or less.

Note 4 - Net Income per Common Share

Basic net income per share is computed based on the weighted-average number of common shares outstanding. Diluted net income per share is computed based on the weighted-average number of common shares outstanding, increased by the number of additional shares that would have been outstanding had potentially dilutive common shares been issued and reduced by the number of shares the Company could have repurchased from the proceeds from issuance of the potentially dilutive shares. Potentially dilutive shares of common stock include stock options, restricted stock units and restricted stock awards granted under stock-based compensation plans and shares committed to be purchased under the employee stock purchase plan. Performance stock units are excluded from the calculation of dilutive potential common shares until the performance conditions have been satisfied.

The table below sets forth the computation of basic and diluted net income per share:

(in thousands, except share and per share amounts)	Three Months Ended March 31,							
	 2018		2017					
Net income	\$ 18,051	\$	12,200					
Basic - weighted-average shares outstanding:	26,879,388		26,466,731					
Effect of dilutive securities:								
Employee stock awards and other	317,711		132,469					
Diluted - weighted-average shares outstanding:	27,197,099		26,599,200					
Net income per share:								
Basic	\$ 0.67	\$	0.46					
Diluted	\$ 0.66	\$	0.46					

Note 5 – Goodwill and Other Intangible Assets

The changes in the carrying amount of goodwill during the three months ended March 31, 2018 were as follows:

(in thousands)	Three Months Ended March 31, 2018
Balance as of the beginning of the period	\$ 128,504
Additions to goodwill during the period	248
Balance as of the end of the period	\$ 128,752

The Company adjusted goodwill by \$0.2 million during the three months ended March 31, 2018 as a result of the final working capital adjustment for the acquisition of RAPID in November 2017.

Intangible Assets other than goodwill at March 31, 2018 and December 31, 2017 were as follows:

(in thousands)		March 31, 2018 Accumulated Gross Amortization Net				Accumulated Accumulated							Useful Life (in years)	Weighted Average Useful Life Remaining (in years)
Intangible Assets with finite lives:														
Marketing assets	\$	930	\$	(364)	¢	566	\$	930	\$	(341)	¢	589	10.0	6.0
U	Ф		Ф		Ф		Ф		Ф	()	Ф			
Non-compete agreement		270		(194)		76		270		(190)		80	2.0 - 5.0	4.8
Trade secrets		250		(196)		54		250		(183)		67	5.0	1.0
Trade names		1,080		(135)		945		1,080		-		1,080	2.0	1.8
Internally developed														
software		680		(680)		-		680		(680)		-	3.0	0.0
Software technology		9,229		(206)		9,023		8,229		-		8,229	10.0	9.8
Customer relationships		10,070		(1,415)		8,655		10,070		(1,031)		9,039	6.0 - 9.0	5.6
Total intangible assets	\$	22,509	\$	(3,190)	\$	19,319	\$	21,509	\$	(2,425)	\$	19,084		

Amortization expense for intangible assets was \$0.8 million and \$0.2 million for the three months ended March 31, 2018 and 2017, respectively.

Estimated aggregated amortization expense based on the current carrying value of the amortizable intangible assets is as follows:

(in thousands)	An	Estimated Amortization Expense		
Remaining 2018	\$	2,379		
2019		3,128		
2020		2,571		
2021		2,571		
2022		2,571		
Thereafter		6,099		
Total estimated amortization expense	\$	19,319		

Note 6 – Fair Value Measurements

ASC 820, Fair Value Measurement (ASC 820), defines fair value as the exchange price that would be received for an asset or paid to transfer a liability (an 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. ASC 820 also establishes a fair value hierarchy that requires classification based on observable and unobservable inputs when measuring fair value. There are three levels of inputs that may be used to measure fair value:

Level 1—Quoted prices in active markets for identical assets or liabilities.

Level 2—Observable inputs other than Level 1 prices such as quoted prices for similar assets or liabilities; quoted prices in markets that are not active; or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities.

Level 3—Unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities.

The Company's cash consists of bank deposits. The Company's cash equivalents measured at fair value consist of money market mutual funds. The Company determines the fair value of these investments using Level 1 inputs.

The following table summarizes financial assets as of March 31, 2018 and December 31, 2017 measured at fair value on a recurring basis:

			March 3	1, 2018		December 31, 2017						
(in thousands)	Le	Level 1			Level 3		L	evel 1	Level 2		Level	
Financial Assets:												
Cash and cash equivalents												
Money market mutual fund	\$	1,115	\$	-	\$	-	\$	3,034	\$	-	\$	
Total	\$	1,115	\$	-	\$	-	\$	3,034	\$	-	\$	

Note 7 - Marketable Securities

The Company invests in short-term and long-term agency, municipal, corporate and other debt securities. The securities are categorized as held-to-maturity and are recorded at amortized cost. Categorization as held-to-maturity is based on the Company's ability and intent to hold these securities to maturity. The following table summarizes information regarding the Company's short-term and long-term marketable securities as of March 31, 2018 and December 31, 2017:

			March 3	31, 201	8		
		Unre	ealized	Un	realized		
(in thousands)	Cost	G	ains	I	osses	Fai	r Value
U.S. municipal securities	\$ 23,417	\$	-	\$	(96)	\$	23,321
Corporate debt securities	24,377		-		(194)		24,183
U.S. government agency securities	32,372		-		(207)		32,165
Certificates of deposit/time deposits	3,968		-		(39)		3,929
Total marketable securities	\$ 84,134	\$	-	\$	(536)	\$	83,598

			Decembe	r 31,	2017		
		Ţ	U nrealized	Ţ	U nrealized		
(in thousands)	Cost		Gains		Losses	Fa	air Value
U.S. municipal securities	\$ 28,364	\$	-	\$	(104)	\$	28,260
Corporate debt securities	29,806		-		(128)		29,678
U.S. government agency securities	32,320		-		(199)		32,121
Certificates of deposit/time deposits	3,968		-		(32)		3,936
Total marketable securities	\$ 94,458	\$		\$	(463)	\$	93,995

Fair values for the corporate debt securities are primarily determined based on quoted market prices (Level 1). Fair values for the U.S. municipal securities, U.S. government agency securities and certificates of deposit are primarily determined using dealer quotes or quoted market prices for similar securities (Level 2).

The Company tests for other-than-temporary losses on a quarterly basis and has considered the unrealized losses indicated above to be temporary in nature. In reaching this conclusion, the Company considered the credit quality of the issuers of the debt securities as well as the Company's intent to hold the investments to maturity and recover the full principal.

Classification of marketable securities as current or non-current is based upon the security's maturity date as of the date of these financial statements.

The March 31, 2018 balance of held-to-maturity debt securities by contractual maturity is shown in the following table at amortized cost. Actual maturities may differ from contractual maturities because the issuers of the securities may have the right to prepay obligations without prepayment penalties.

(in thousands)	M	arch 31, 2018
Due in one year or less	\$	53,467
Due after one year through five years		30,667
Total marketable securities	\$	84,134

Note 8 - Inventory

Inventory consists primarily of raw materials, which are recorded at the lower of cost or market using the average-cost method, which approximates first-in, first-out (FIFO) cost. The Company periodically reviews its inventory for slow-moving, damaged and discontinued items and provides allowances to reduce such items identified to their recoverable amounts.

The Company's inventory consisted of the following as of the dates indicated:

(in thousands)	March 31, 2018	nber 31, 017
Raw materials	\$ 9,466	\$ 9,767
Work in process	555	1,998
Total inventory	10,021	 11,765
Allowance for obsolescence	(515)	(494)
Inventory, net of allowance	\$ 9,506	\$ 11,271

Note 9 - Stock-Based Compensation

Under the Company's 2012 Long-Term Incentive Plan, as amended (the 2012 Plan), the Company has the ability to grant stock options, stock appreciation rights (SARs), restricted stock, restricted stock units, other stock-based awards and cash incentive awards. Awards under the 2012 Plan have a maximum term of ten years from the date of grant. The compensation committee may provide that the vesting or payment of any award will be subject to the attainment of specified performance measures in addition to the satisfaction of any continued service requirements and the compensation committee will determine whether such measures have been achieved. The per-share exercise price of stock options and SARs granted under the 2012 Plan generally may not be less than the fair market value of a share of our common stock on the date of the grant.

Employee Stock Purchase Plan

The Company's 2012 Employee Stock Purchase Plan (ESPP) allows eligible employees to purchase a variable number of shares of the Company's common stock each offering period at a discount through payroll deductions of up to 15 percent of their eligible compensation, subject to plan limitations. The ESPP provides for six-month offering periods with a single purchase period ending May 15 and November 15, respectively. At the end of each offering period, employees are able to purchase shares at 85 percent of the lower of the fair market value of the Company's common stock on the first trading day of the offering period or on the last trading day of the offering period.

Stock-Based Compensation Expense

Stock-based compensation expense was \$2.3 million and \$1.7 million for the three months ended March 31, 2018 and 2017, respectively.

Stock Options

The following table summarizes stock option activity during the three months ended March 31, 2018:

		Weighted- Average
	Stock Options	Exercise Price
Options outstanding at December 31, 2017	399,397	\$ 51.14
Granted	22,450	105.7
Exercised	(81,964)	35.1
Forfeited	(10,822)	61.9
Options outstanding at March 31, 2018	329,061	\$ 58.5
Exercisable at March 31, 2018	193,438	\$ 48.7

The outstanding options generally have a term of ten years. For employees, options granted become exercisable ratably over the vesting period, which is generally a period from four to five years, beginning on the first anniversary of the grant date, subject to the employee's continuing service to the Company. For directors, options generally become exercisable in full on the first anniversary of the grant date.

The weighted-average grant date fair value of options that were granted during the three months ended March 31, 2018 was \$47.55.

The following table provides the assumptions used in the Black-Scholes pricing model valuation of options during the three months ended March 31, 2018 and 2017:

	Three Months E	Three Months Ended March 31,		
	2018	2017		
Risk-free interest rate	2.52%	2.24%		
Expected life (years)	6.25	6.50		
Expected volatility	42.22%	44.68%		
Expected dividend yield	0%	0%		

As of March 31, 2018, there was \$4.2 million of unrecognized compensation expense related to unvested stock options, which is expected to be recognized over a weighted-average period of 3.4 years.

Restricted Stock

Restricted stock awards are share-settled awards and restrictions lapse ratably over the vesting period, which is generally a period from four to five years, beginning on the first anniversary of the grant date, subject to the employee's continuing service to the Company. For directors, restrictions generally lapse in full on the first anniversary of the grant date.

The following table summarizes restricted stock activity during the three months ended March 31, 2018:

	Restricted Stock	Weighted- Average Grant Date Fair Value Per Share
Restricted stock at December 31, 2017	334,608	\$ 63.29
Granted	20,976	105.75
Restrictions lapsed	(22,616)	62.94
Forfeited	(13,536)	61.33
Restricted stock at March 31, 2018	319,432	\$ 66.18

As of March 31, 2018, there was \$17.5 million of unrecognized compensation expense related to non-vested restricted stock, which is expected to be recognized over a weighted-average period of 3.6 years.

Performance Stock

Performance stock units (PSUs) are expressed in terms of a target number of PSUs, with anywhere between 0 percent and 150 percent of that target number capable of being earned and vesting at the end of a three-year performance period depending on the Company's performance in the final year of the performance period and the award recipient's continued employment.

The following table summarizes performance stock activity during the three months ended March 31, 2018:

	Performance Stock	Weighted- Average Grant Date Fair Value Per Share
Performance stock at December 31, 2017	25,707	\$ 58.35
Granted	20,006	105.75
Restrictions lapsed	-	-
Performance assumption change	6,427	58.35
Forfeited	-	-
Performance stock at March 31, 2018	52,140	\$ 76.54

As of March 31, 2018, there was \$3.2 million of unrecognized compensation expense related to non-vested performance stock, which is expected to be recognized over a weighted-average period of 2.5 years.

Employee Stock Purchase Plan

The following table presents the assumptions used to estimate the fair value of the ESPP during the three months ended March 31, 2018 and 2017:

	Three Months E	Three Months Ended March 31,		
	2018	2017		
Risk-free interest rate	1.48%	0.59%		
Expected life (months)	6.00	6.00		
Expected volatility	24.49%	39.51%		
Expected dividend yield	0%	0%		

Note 10 - Accumulated Other Comprehensive Loss

Other comprehensive income (loss) is comprised entirely of foreign currency translation adjustments. The following table presents the changes in accumulated other comprehensive income (loss) balances during the three months ended March 31, 2018 and 2017:

	 Three Month March	
(in thousands)	2018	2017
Foreign currency translation adjustments	 	
Balance at beginning of period	\$ (5,234) \$	(10,753)
Other comprehensive income (loss) before reclassifications	2,393	1,185
Amounts reclassified from accumulated other comprehensive loss	-	-
Net current-period other comprehensive income (loss)	2,393	1,185
Balance at end of period	\$ (2,841) \$	(9,568)

Note 11 – Income Taxes

The Company is subject to income tax in multiple jurisdictions and the use of estimates is required to determine the provision for income taxes. For the three months ended March 31, 2018 and 2017, the Company recorded an income tax provision of \$3.9 million and \$5.8 million, respectively. The income tax provision is based on the estimated annual effective tax rate for the year applied to pre-tax income. The effective income tax rate for the three months ended March 31, 2018 was 17.6 percent compared to 32.2 percent in the same period of the prior year. The effective tax rate decreased by 14.6% for the three months ended March 31, 2018 when compared to the same period in 2017 primarily due to the impact of tax reform and benefits from the exercise of stock options.

The Tax Cuts and Jobs Act (the Act) was enacted on December 22, 2017. The Act reduces the U.S. federal corporate tax rate from 35% to 21%, requires companies to pay a transition tax on earnings of certain foreign subsidiaries that were previously tax-deferred and creates new taxes on certain foreign-sourced earnings. The Company has applied the guidance in ASU 2018-05, *Income Taxes (Topic* 740): *Amendments to SEC Paragraphs Pursuant to SEC Staff Accounting Bulletin* No. 118, when accounting for the enactment-date effects of the Act. As of March 31, 2018, the Company had not completed its accounting for the tax effects of the Act, as the Company is in the process of analyzing certain aspects of the Act, obtaining information, and refining its calculations of the Act's impact. There have been no material measurement period adjustments made during the three months ended March 31, 2018 related to the provisional amounts recorded and disclosed in our Annual Report on Form 10-K for the year ended December 31, 2017. The Company expects to complete the accounting for the tax effects of the Act during 2018.

The effective income tax rate for the three months ended March 31, 2018 differs from the U.S. federal statutory rate of 21.0 percent due primarily to the mix of income earned in domestic and foreign tax jurisdictions and deductions for which the Company qualifies.

The Company had reserves against unrecognized tax benefits totaling \$4.2 million at each of March 31, 2018 and December 31, 2017, all of which, if recognized, would affect the Company's effective tax rate. The Company recognizes interest and penalties related to income tax matters in income tax expense, and reports the liability in current or long-term income taxes payable as appropriate.

Note 12 - Segment Reporting

The Company's reportable segments are based on the internal reporting used by the Company's Chief Executive Officer, who is the chief operating decision maker (CODM), to assess operating performance and make decisions about the allocation of resources. The Corporate Unallocated and Japan category includes non-reportable segments, as well as research and development and general and administrative costs that the Company does not allocate directly to its operating segments.

Intercompany transactions primarily relate to intercontinental activity and have been eliminated and are excluded from the reported amounts. The difference between income from operations and pre-tax income relates to foreign currency-related gains and losses and interest income on cash balances and investments, which are not allocated to business segments.

Revenue and income from operations by reportable segment for the three months ended March 31, 2018 and 2017 were as follows:

	 Three Months E	nded 1	March 31,
(in thousands)	2018		2017
Revenue:			
United States	\$ 84,167	\$	60,176
Europe	19,945		16,999
Japan	3,633		2,992
Total revenue	\$ 107,745	\$	80,167

	T	hree Months Ended	March 31,
(in thousands)		2018	2017
Income from Operations:			
United States	\$	30,071 \$	24,346
Europe		3,379	4,040
Corporate Unallocated and Japan		(11,722)	(10,704)
Total Income from Operations	\$	21,728 \$	17,682

Total long-lived assets at March 31, 2018 and December 31, 2017 were as follows:

(in thousands)	March 31, 2018	December 31, 2017		
Total long-lived assets:				
United States	\$ 145,903	\$ 125,308		
Europe	34,190	33,691		
Japan	7,770	7,441		
Total Assets	\$ 187,863	\$ 166,440		

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

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with our unaudited consolidated financial statements and related notes appearing elsewhere in this Quarterly Report on Form 10-Q and our Annual Report on Form 10-K for the year ended December 31, 2017.

Forward-Looking Statements

Statements contained in this report regarding matters that are not historical or current facts are "forward-looking statements" within the meaning of The Private Securities Litigation Reform Act of 1995. In some cases, you can identify forward-looking statements by the following words: "may," "will," "could," "would," "should," "expect," "intend," "plan," "anticipate," "believe," "estimate," "predict," "project," "potential," "continue," "ongoing" or the negative of these terms or other comparable terminology, although not all forward-looking statements contain these words. These statements involve known and unknown risks, uncertainties and other factors that may cause our results to be materially different than those expressed or implied in such statements. Certain of these risk factors and others are described in Item 1A. "Risk Factors" of our most recent Annual Report on Form 10-K as filed with the SEC. Other unknown or unpredictable factors also could have material adverse effects on our future results. We cannot guarantee future results, levels of activity, performance or achievements. Accordingly, you should not place undue reliance on these forward-looking statements. Finally, we expressly disclaim any intent or obligation to update any forward-looking statements to reflect subsequent events or circumstances.

Overview

We are the world's largest and fastest digital manufacturer of custom prototypes and on-demand production parts. We manufacture prototypes and low-volume production parts for companies worldwide, who are under increasing pressure to bring their finished products to market faster than their competition. We utilize injection molding, computer numerical control (CNC) machining, 3D printing and sheet metal fabrication to manufacture custom parts for our customers. Our proprietary technology eliminates most of the time-consuming and expensive skilled labor conventionally required to quote and manufacture parts. Our customers conduct nearly all of their business with us over the Internet. We target our products to the millions of product developers and engineers who use three-dimensional computer-aided design (3D CAD) software to design products across a diverse range of end-markets.

Our primary manufacturing product lines currently include Injection Molding, CNC Machining, 3D Printing and Sheet Metal. We continually seek to expand the range of sizes and geometric complexity of the parts we can make with these processes, to extend the variety of materials we are able to support and to identify additional manufacturing processes to which we can apply our technology in order to better serve the evolving preferences and needs of product developers and engineers.

Injection Molding

Our Injection Molding product line uses our 3D CAD-to-CNC machining technology for the automated design and manufacture of molds, which are then used to produce custom plastic and liquid silicone rubber injection-molded parts and over-molded and insert-molded injection-molded parts on commercially available equipment. Our Injection Molding product line works best for on-demand production, bridge tooling, pilot runs and functional prototyping. Our affordable aluminum molds and quick turnaround times help reduce design risk and limit overall production costs for product developers and engineers. Prototype quantities typically range from 25 to 100 parts. Because we retain possession of the molds, customers who need short-run production often come back to Protolabs' Injection Molding product line for additional quantities. They do so to support pilot production for product testing, while their tooling for high-volume production is being prepared, because they need on-demand manufacturing due to disruptions in their manufacturing process, because their product requires limited annual quantity or because they need end-of-life production support. In 2017, we launched an on-demand manufacturing injection molding service. This service utilizes our existing processes, but is designed to fulfill the needs of customers with on-going production needs, typically in annual volumes of less than 10,000 parts.

CNC Machining

Our CNC Machining product line uses commercially available CNC machines to offer milling and turning. CNC milling is a manufacturing process that cuts plastic and metal blocks into one or more custom parts based on the 3D CAD model uploaded by the product developer or engineer. CNC turning with live tooling combines both lathe and mill capabilities to machine parts with cylindrical features from metal rod stock. Our efficiencies derive from the automation of the programming of these machines and a proprietary fixturing process.

Quick-turn CNC machining works best for prototyping, form and fit testing, jigs and fixtures and functional components for end-use applications. The CNC Machining product line is well suited to produce small quantities, typically in the range of one to 200 parts.

3D Printing

Our 3D Printing product line includes stereolithography, selective laser sintering, direct metal laser sintering, Multi Jet Fusion and PolyJet processes, which offers customers a wide-variety of high-quality, precision rapid prototyping and low-volume production. These processes create parts with a high level of accuracy, detail, strength and durability. Industrial 3D Printing is best suited for functional prototypes, complex designs and end-use applications. 3D Printing is well suited to produce small quantities, typically in the range of one to 50 parts.

Sheet Metal

Our Sheet Metal product line includes quick-turn and e-commerce-enabled custom sheet metal parts, which provides customers with prototype and low-volume production parts. The rapid prototype sheet metal process is most often used when form, fit and function are all a priority. Our manufacturing process uses customer 3D CAD models uploaded by the product developer or engineer to fabricate quick-turn prototype sheet metal or short-run production parts. The Sheet Metal product line is well suited to produce quantities in the range of one to 500 parts.

Key Financial Measures and Trends

Revenue

Our operations are comprised of three geographic operating segments in the United States, Europe and Japan. Revenue is derived from our Injection Molding, CNC Machining, 3D Printing and Sheet Metal product lines. Injection Molding revenue consists of sales of custom injection molds and injection-molded parts. CNC Machining revenue consists of sales of CNC-machined custom parts. 3D Printing revenue consists of sales of 3D-printed parts. Sheet Metal revenue consists of sales of fabricated sheet metal custom parts. Our historical and current efforts to increase revenue have been directed at gaining new customers and selling to our existing customer base by increasing marketing and selling activities, including:

- the introduction of our 3D Printing product line through our acquisition of FineLine in 2014;
- expanding internationally through our acquisition of Alphaform in October 2015;
- the introduction of our Sheet Metal product line through our acquisition of RAPID in 2017;
- continuously improving the usability of our product lines such as our web-centric applications; and
- expanding the breadth and scope of our products by adding more sizes and materials to our offerings.

During the three months ended March 31, 2018, we served 18,057 unique product developers and engineers who purchased our products through our web-based customer interface, an increase of 22.0% over the same period in 2017. The information does not include 3D Printing, Injection Molding and Sheet Metal customers who do not utilize our web-based interface; these customers are principally related to our recent acquisitions.

Cost of Revenue, Gross Profit and Gross Margin

Cost of revenue consists primarily of raw materials, equipment depreciation, employee compensation, benefits, stock-based compensation, facilities costs and overhead allocations associated with the manufacturing process for molds and custom parts. We expect cost of revenue to increase in absolute dollars, but remain relatively constant as a percentage of total revenue.

We define gross profit as our revenue less our cost of revenue, and we define gross margin as gross profit expressed as a percentage of revenue. Our gross profit and gross margin are affected by many factors, including our mix of revenue by product line, pricing, sales volume and manufacturing costs, the costs associated with increasing production capacity, the mix between domestic and foreign revenue sources and foreign exchange rates.

Operating Expenses

Operating expenses consist of marketing and sales, research and development and general and administrative expenses. Personnel-related costs are the most significant component in each of these categories.

Our recent growth in operating expenses is mainly due to recent acquisitions and higher headcounts to support our growth and expansion, and we expect that trend to continue. Our business strategy is to continue to be a leading online and technology-enabled manufacturer of quickturn, on-demand injection-molded, CNC-machined, CNC-turned, 3D-printed and sheet metal custom parts for prototyping and low-volume production. In order to achieve our goals, we anticipate continued substantial investments in technology and personnel, resulting in increased operating expenses.

Marketing and sales. Marketing and sales expense consists primarily of employee compensation, benefits, commissions, stock-based compensation, marketing programs such as electronic, print and pay-per-click advertising, trade shows and other related overhead. We expect sales and marketing expense to increase in the future as we increase the number of marketing and sales professionals and marketing programs targeted to increase our customer base and grow revenue.

Research and development. Research and development expense consists primarily of personnel and outside service costs related to the development of new processes and product lines, enhancement of existing product lines, development of software for internal use, maintenance of internally developed software, quality assurance and testing. All of our internal research and development costs have been expensed as incurred. We expect research and development expense to increase in the future as we seek to enhance and expand our product line offerings and supporting business systems.

General and administrative. General and administrative expense consists primarily of employee compensation, benefits, stock-based compensation, professional service fees related to accounting, tax and legal and other related overhead. We expect general and administrative expense to increase in the future as we continue to grow and expand as a global organization.

Other Income, net

Other income, net primarily consists of foreign currency-related gains and losses and interest income on cash balances and investments. Our foreign currency-related gains and losses will vary depending upon movements in underlying exchange rates. Our interest income will vary each reporting period depending on our average cash balances during the period, composition of our marketable security portfolio and the current level of interest rates.

Provision for Income Taxes

Provision for income taxes is comprised of federal, state, local and foreign taxes based on pre-tax income. On December 22, 2017, the Tax Cuts and Jobs Act was signed into law in the United States. As a result, many provisions will affect our tax rate in future years. Some provisions, such as the reduction to the U.S. corporate tax rate from 35% to 21%, beginning in 2018, will reduce our effective tax rate in future years. Other provisions taken in isolation, such as the elimination of the Domestic Production Activities Deduction, will likely result in an increase to our tax rate. Overall, we anticipate our effective tax rate will be lower in 2018 and beyond than in recent periods based on the current tax laws.

Results of Operations

The following table summarizes our results of operations and the related changes for the periods indicated. The results below are not necessarily indicative of the results for future periods.

	Three Months Ended March 31,			Change			
(dollars in thousands)		201	.8	201	7	\$	%
Revenue	\$	107,745	100.0	\$ 80,167	100.0%	\$ 27,578	34.4
Cost of revenue		49,837	46.3	34,894	43.5	14,943	42.8
Gross profit		57,908	53.7	45,273	56.5	12,635	27.9
Operating expenses:							
Marketing and sales		16,572	15.4	12,987	16.2	3,585	27.6
Research and development		6,665	6.2	5,823	7.3	842	14.5
General and administrative		12,943	12.0	8,781	10.9	4,162	47.4
Total operating expenses		36,180	33.6	27,591	34.4	8,589	31.1
Income from operations		21,728	20.2	17,682	22.1	4,046	22.9
Other income (expense), net		178	0.2	315	0.3	(137)	(43.5)
Income before income taxes		21,906	20.4	17,997	22.4	3,909	21.7
Provision for income taxes		3,855	3.6	5,797	7.2	(1,942)	(33.5)
Net income	\$	18,051	16.8%	\$ 12,200	15.2%	\$ 5,851	48.0%

Stock-based compensation expense included in the statements of operations data above for the three months ended March 31, 2018 and 2017 was as follows:

	Th	Three Months Ended March 31,		
(dollars in thousands)		2018		2017
Stock awards	\$	2,153	\$	1,566
Employee stock purchase plan		154		150
Total stock-based compensation expense	\$	2,307	\$	1,716
Cost of revenue	\$	287	\$	197
Operating expenses:				
Marketing and sales		377		269
Research and development		314		222
General and administrative		1,329		1,028
Total stock-based compensation expense	\$	2,307	\$	1,716

Comparison of Three Months Ended March 31, 2018 and 2017

Revenue

Revenue by reportable segment and the related changes for the three months ended March 31, 2018 and 2017 was as follows:

		Three Months End	led March 31,				
	 201	8	201	7	Change		
		% of Total		% of Total			
(dollars in thousands)	\$	Revenue	\$	Revenue	\$	%	
Revenue							
United States	\$ 84,167	78.1% \$	60,176	75.1%	\$ 23,991	39.9%	
Europe	19,945	18.5	16,999	21.2	2,946	17.3	
Japan	3,633	3.4	2,992	3.7	641	21.4	
Total revenue	\$ 107,745	100.0% \$	80,167	100.0%	\$ 27,578	34.4%	

Our revenue increased \$27.6 million, or 34.4%, for the three months ended March 31, 2018 compared to the same period in 2017. By reportable segment, revenue in the United States increased \$24.0 million, or 39.9% for the three months ended March 31, 2018 compared to the same period in 2017. Revenue growth in the United States was partially attributable to the acquisition of RAPID in November 2017. Revenue in Europe increased \$3.0 million, or 17.3%, and revenue in Japan increased \$0.6 million, or 21.4%, in each case for the three months ended March 31, 2018 compared to the same period in 2017.

Our revenue growth during the three months ended March 31, 2018 was the result of an increase in the volume of the product developers and engineers we served through our web-based customer interface. During the three months ended March 31, 2018, we served 18,057 unique product developers and engineers through our web-based customer interface, an increase of 22.0% over the same period in 2017.

Our revenue increases were primarily driven by increases in sales personnel and marketing activities. Our sales personnel focus on gaining new customer accounts and expanding the depth and breadth of existing customer accounts. Our marketing personnel focus on marketing activities that result in the greatest number of customer leads to support sales activity. International revenue was positively impacted by \$2.7 million during the three months ended March 31, 2018 compared to the same period in 2017 as a result of foreign currency movements, primarily the strengthening of the British Pound relative to the Dollar.

Revenue by product line and the related changes for the three months ended March 31, 2018 and 2017 was as follows:

		Three Months Ende	ed March 31,			
	 201	8	2017	7	Cha	nge
		% of Total		% of Total		
(dollars in thousands)	\$	Revenue	\$	Revenue	\$	%
Revenue						
Injection Molding	\$ 51,343	47.7% \$	47,916	59.8% \$	3,427	7.2%
CNC Machining	36,731	34.1	21,972	27.4	14,759	67.2
3D Printing	12,325	11.4	10,085	12.6	2,240	22.2
Sheet Metal	6,241	5.8	-	-	6,241	*
Other Revenue	1,105	1.0	194	0.2	911	*
Total revenue	\$ 107,745	100.0% \$	80,167	100.0% \$	27,578	34.4%

^{*}Percentage change not meaningful

By product line, our revenue growth was driven by a 7.2% increase in Injection Molding revenue, a 67.2% increase in CNC Machining revenue and a 22.2% increase in 3D Printing revenue, as well as a \$0.9 million increase in Other Revenue, in each case for the three months ended March 31, 2018 compared to the same period in 2017. Revenue growth in our CNC Machining, Sheet Metal and Other product lines was partially attributable to the acquisition of RAPID in November 2017.

Cost of Revenue, Gross Profit and Gross Margin

Cost of Revenue. Cost of revenue increased \$14.9 million, or 42.8%, for the three months ended March 31, 2018 compared to the same period in 2017, which was faster than the rate of revenue increase of 34.4% for the three months ended March 31, 2018 compared to the same period in 2017. The increase in cost of revenue resulted from the growth of the business, including via the RAPID acquisition, and was due to raw material and production cost increases of \$4.7 million, an increase in direct labor headcount resulting in personnel and related cost increases of \$8.0 million and equipment and facility-related cost increases of \$2.2 million to support increased sales volumes.

Gross Profit and Gross Margin. Gross profit increased from \$45.3 million in the three months ended March 31, 2017 to \$57.9 million in the three months ended March 31, 2018 primarily due to an increase in revenue. Gross margin decreased from 56.5% in the three months ended March 31, 2017 to 53.7% in the three months ended March 31, 2018 due to the timing and mix of revenue, which impacted the increase in cost of revenue discussed above. Despite costs incurred related to the integration of RAPID, gross margins remained similar for the three months ended March 31, 2018 compared to the same period in 2017.

Operating Expenses, Other Income, net and Provision for Income Taxes

Marketing and Sales. Marketing and sales expenses increased \$3.6 million, or 27.6%, during the three months ended March 31, 2018 compared to the same period in 2017 due primarily to an increase in headcount resulting in personnel and related cost increases of \$3.1 million as well as marketing program cost increases of \$0.5 million.

Research and Development. Our research and development expenses increased \$0.8 million, or 14.5%, during the three months ended March 31, 2018 compared to the same period in 2017 due to an increase in headcount resulting in personnel and related cost increases of \$0.8 million.

General and Administrative. Our general and administrative expenses increased \$4.2 million, or 47.4%, during the three months ended March 31, 2018 compared to the same period in 2017 due to an increase in headcount resulting in personnel and related cost increases of \$1.4 million, stock based compensation cost increases of \$0.3 million, administrative cost increases of \$2.1 million and professional services cost increases of \$0.4 million.

Other Income, net. We recognized other income, net of \$0.2 million for the three months ended March 31, 2018, a decrease of \$0.1 million compared to other income, net of \$0.3 million for the three months ended March 31, 2017. Other income, net decreased primarily due to a decrease of \$0.1 million in interest income on investments.

Provision for Income Taxes. Our effective tax rate of 17.6% for the three months ended March 31, 2018 decreased 14.6% compared to 32.2% for the same period in 2017. The decrease in the effective tax rate is primarily due to the Tax Cuts and Jobs Act that went into effect in 2018 and benefits from the exercise of stock options. Our income tax provision decreased by \$1.9 million to \$3.9 million for the three months ended March 31, 2018 compared to our income tax provision of \$5.8 million for the three months ended March 31, 2017.

Liquidity and Capital Resources

Cash Flows

The following table summarizes our cash flows during the three months ended March 31, 2018 and 2017:

	Three Mon	Three Months Ended March 31,			
(dollars in thousands)	2018		2017		
Net cash provided by operating activities	\$ 26,	145 \$	18,792		
Net cash used in investing activities	(15,	441)	(13,577)		
Net cash used in financing activities	(2,	748)	(2,468)		
Effect of exchange rates on cash and cash equivalents		432	346		
Net increase in cash and cash equivalents	\$ 8,	388 \$	3,093		

Sources of Liquidity

Historically, we have primarily financed our operations and capital expenditures through cash flow from operations. We also have a line of credit facility in place, which we recently utilized in connection with our acquisitions at the end of 2017, and repaid in the three months ended March 31, 2018. We had cash and cash equivalents of \$45.1 million as of March 31, 2018, an increase of \$8.4 million from December 31, 2017. The increase in our cash was primarily due to cash generated through operations and proceeds from maturities of marketable securities, which were partially offset by investing activity and payments on debt.

Cash Flows from Operating Activities

Cash flows from operating activities were \$26.1 million during the three months ended March 31, 2018 and primarily consisted of net income of \$18.1 million, adjusted for certain non-cash items, including depreciation and amortization of \$6.3 million, stock-based compensation expense of \$2.3 million, deferred taxes of \$0.6 million and amortization of held-to-maturity securities of \$0.2 million. Cash flows from operating activities increased \$7.4 million during the three months ended March 31, 2018 compared to the same period in 2017, primarily due to increases in net income of \$5.9 million mostly driven by general growth of the business and a benefit from the decrease in our effective tax rate, depreciation and amortization of \$2.0 million driven by an increase in capital investments, an increase in stock-based compensation expense of \$0.6 million, an increase in deferred taxes of \$0.2 million and an increase in other adjustments of \$0.2 million primarily due to changes in foreign currency. These increases were partially offset by a decrease in amortization of held-to-maturity securities of \$0.1 million and by changes in operating assets and liabilities of \$1.4 million driven by general growth of the business and timing of cash receipts and payments.

Cash flows from operating activities were \$18.8 million during the three months ended March 31, 2017 and primarily consisted of net income of \$12.2 million, adjusted for certain non-cash items, including depreciation and amortization of \$4.3 million, stock-based compensation expense of \$1.7 million, deferred taxes of \$0.4 million and amortization of held-to-maturity securities of \$0.3 million, which were partially offset by other adjustments of \$0.1 million.

Cash Flows from Investing Activities

Cash used in investing activities was \$15.4 million during the three months ended March 31, 2018, consisting of \$25.5 million for the purchases of property and equipment, \$3.4 million for the purchases of marketable securities, and \$0.1 million in cash used for acquisitions, which were partially offset by \$13.6 million in proceeds from maturities of marketable securities.

Cash used in investing activities was \$13.6 million during the three months ended March 31, 2017, consisting of \$7.8 million for the purchases of property and equipment and \$16.5 million for the purchases of marketable securities, which were partially offset by \$10.8 million in proceeds from maturities of marketable securities.

Cash Flows from Financing Activities

Cash used in financing activities was \$2.7 million during the three months ended March 31, 2018, consisting of proceeds from exercises of stock options of \$2.3 million, which were partially offset by payments on debt of \$5.0 million.

Cash used in financing activities was \$2.5 million during the three months ended March 31, 2017, consisting of proceeds from exercises of stock options of \$0.2 million and repurchases of common stock of \$2.7 million.

Off-Balance Sheet Arrangements

Since our inception, we have not engaged in any off-balance sheet arrangements, including the use of structured finance, special purpose entities or variable interest entities.

Critical Accounting Policies and Use of Estimates

We have adopted various accounting policies to prepare the Consolidated Financial Statements in accordance with accounting principles generally accepted in the United States of America (U.S. GAAP). Our significant accounting policies are disclosed in Note 2 to the Consolidated Financial Statements included in our Annual Report on Form 10-K for the year ended December 31, 2017. See Note 3 to the Consolidated Financial Statements appearing in Part I, Item 1 in this Quarterly Report on Form 10-Q for significant changes to the Company's accounting policies as a result of adopting ASC 606.

Recent Accounting Pronouncements

For information on recent accounting pronouncements, see Note 2 to the Consolidated Financial Statements appearing in Part I, Item 1 in this Quarterly Report on Form 10-Q.

Item 3. Quantitative and Qualitative Disclosures about Market Risk

Foreign Currency Risk

As a result of our foreign operations, we have revenue, expenses, assets and liabilities that are denominated in foreign currencies. We generate revenue and incur production costs and operating expenses in British Pounds, Euros and Japanese Yen.

Our operating results and cash flows are adversely impacted when the United States Dollar appreciates relative to foreign currencies. Additionally, our operating results and cash flows are adversely impacted when the British Pound appreciates relative to the Euro. As we expand internationally, our results of operations and cash flows will become increasingly subject to changes in foreign currency exchange rates.

We have not used forward contracts or currency borrowings to hedge our exposure to foreign currency risk. Foreign currency risk can be assessed by estimating the change in results of operations or financial position resulting from a hypothetical 10% adverse change in foreign exchange rates. We believe such a change would generally not have a material impact on our financial position, but could have a material impact on our results of operations. We recognized foreign currency losses of \$0.1 million in each of the three months ended March 31, 2018 and 2017.

Item 4. Controls and Procedures

Evaluation of Disclosure Controls and Procedures

Our management, with the participation of our Chief Executive Officer and Chief Financial Officer, has 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 (Exchange Act)) as of the end of the period covered by this report. Based upon that evaluation, the Chief Executive Officer and Chief Financial Officer have concluded that, as of the end of the period covered by this quarterly report, our disclosure controls and procedures are effective and provide reasonable assurance 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 accurately and within the time frames specified in the SEC's rules and forms and accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosure.

Changes in Internal Control over Financial Reporting

There have been no changes in our internal control over financial reporting (as such term is defined in Rule 13a-15(f) under the Exchange Act) during the period covered by this report that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

PART II. OTHER INFORMATION

Item 1. Legal Proceedings

From time to time, we are subject to various legal proceedings and claims that arise in the ordinary course of our business activities. Although the results of litigation and claims cannot be predicted with certainty, as of the date of these financial statements, we do not believe we are party to any litigation the outcome of which, if determined adversely to us, would individually or in the aggregate be reasonably expected to have a material adverse effect on our business.

Item 1A. Risk Factors

There have been no material changes from the risk factors we previously disclosed in Part I, Item 1A. "Risk Factors" in our Annual Report on Form 10-K for the year ended December 31, 2017.

Item 2. Unregistered Sales of Equity Securities and Use of Proceeds

On February 9, 2017, we announced that our board of directors had authorized the repurchase of shares of our common stock from time to time on the open market or in privately negotiated purchases, at an aggregate purchase price of up to \$50 million. The timing and amount of any share repurchases will be determined by our management based on market conditions and other factors. The term of the program runs through December 31, 2021.

During the three months ended March 31, 2018, we did not repurchase shares of our common stock.

Item 3. Defaults Upon Senior Securities

No matters to disclose.

Item 4. Mine Safety Disclosures

No matters to disclose.

Item 5. Other Information

No matters to disclose.

Item 6. Exhibits

The following documents are filed as part of this report:

Exhibit	
Number	Description of Exhibit
3.1 ⁽¹⁾	Third Amended and Restated Articles of Incorporation of Proto Labs, Inc.
$3.2^{(2)}$	Articles of Amendment to Third Amended and Restated Articles of Incorporation of Proto Labs, Inc. dated May 20, 2015
$3.3^{(3)}$	Second Amended and Restated By-Laws of Proto Labs, Inc., as amended through November 8, 2016
31.1	Certification of the Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act
31.2	Certification of the Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act
32.1	Certification of the Chief Executive Officer and the Chief Financial Officer pursuant to Section 906 of the Sarbanes-Oxley Act
101.INS	XBRL Instance Document
101.SCH	XBRL Taxonomy Extension Schema Document
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document
101.LAB	XBRL Taxonomy Extension Label Linkbase Document
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document

- (1) Previously filed as Exhibit 3.2 to the Company's Registration Statement on Form S-1/A (File No. 333-175745), filed with the Commission on February 13, 2012, and incorporated by reference herein.
- (2) Previously filed as Exhibit 3.1 to the Company's Form 8-K (File No. 001-35435), filed with the Commission on May 21, 2015, and incorporated by reference herein.
- (3) Previously filed as Exhibit 3.1 to the Company's Form 8-K (File No. 001-35435), filed with the Commission on November 8, 2016, and incorporated by reference herein.

Date: May 1, 2018

SIGNATURE

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

Proto Labs, Inc.

Date: May 1, 2018 /s/ Victoria M. Holt

Victoria M. Holt

President and Chief Executive Officer

(Principal Executive Officer)

/s/ John A. Way

John A. Way

Chief Financial Officer (Principal Financial Officer)

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CERTIFICATION PURSUANT TO RULE 13a-14(a) OR 15d-14(a) OF THE SECURITIES EXCHANGE ACT OF 1934, AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Victoria M. Holt, certify that:

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

Date: May 1, 2018 By: /s/ Victoria M. Holt

Victoria M. Holt President and Chief Executive Officer (Principal Executive Officer)

CERTIFICATION PURSUANT TO RULE 13a-14(a) OR 15d-14(a) OF THE SECURITIES EXCHANGE ACT OF 1934, AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, John A. Way, certify that:

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

Date: May 1, 2018 By: /s/ John A. Way

John A. Way Chief Financial Officer (Principal Financial Officer)

CERTIFICATION OF CHIEF EXECUTIVE OFFICER AND CHIEF FINANCIAL OFFICER PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

I, Victoria M. Holt, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that the Quarterly Report of Proto Labs, Inc. on Form 10-Q for the fiscal quarter ended March 31, 2018 fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 and that information contained in such Quarterly Report on Form 10-Q fairly presents in all material respects the financial condition and results of operations of Proto Labs, Inc.

Date: May 1, 2018

By: /s/ Victoria M. Holt

Name: Victoria M. Holt

Title: President and Chief Executive Officer

I, John A. Way, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that the Quarterly Report of Proto Labs, Inc. on Form 10-Q for the fiscal quarter ended March 31, 2018 fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 and that information contained in such Quarterly Report on Form 10-Q fairly presents in all material respects the financial condition and results of operations of Proto Labs, Inc.

Date: May 1, 2018

By: /s/ John A. Way

Name: John A. Way

Title: Chief Financial Officer