UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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	FORM 10-Q	
(Mark One)	_	
QUARTERLY REPORT PURSUANT TO SEC For the quarterly period ended June 30, 2022	TION 13 OR 15(d) OF THE SECU	RITIES EXCHANGE ACT OF 1934
or		
☐ TRANSITION REPORT PURSUANT TO SEC For the transition period from	CTION 13 OR 15(d) OF THE SECU	RITIES EXCHANGE ACT OF 1934
rot the transition period from to	Commission File Number: 001-35	5435
	Proto Labs, Inc.	
(Ех	act name of registrant as specified in i	
Minnesota		41-1939628
(State or other jurisdiction of incorporation or	organization)	(I.R.S. Employer Identification No.)
5540 Pioneer Creek Drive		
Maple Plain, Minnesota		55359
(Address of principal executive office	ces)	(Zip Code)
	(763) 479-3680	
(Re	gistrant's telephone number, including	area code)
	Not Applicable	
(Former name, for	Not Applicable mer address and former fiscal year, if	changed since last report)
(g
Securities registered pursuant to Section 12(b) of the	Act:	
Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, Par Value \$0.001 Per Share	PRLB	New York Stock Exchange
of 1934 during the preceding 12 months (or for such stilling requirements for the past 90 days. ☑Yes ☐No Indicate by check mark whether the registrant 1405 of Regulation S-T during the preceding 12 month Indicate by check mark whether the registrant is company, or an emerging growth company. See the december 12 months	shorter period that the registrant was re has submitted electronically every Inte is (or for such shorter period that the re is a large accelerated filer, an accelerate efinitions of "large accelerated filer,"	Tiled by Section 13 or 15(d) of the Securities Exchange Act required to file such reports), and (2) has been subject to such reactive Data File required to be submitted pursuant to Rule registrant was required to submit such files). ☑Yes ☐No red filer, a non-accelerated filer, a smaller reporting and "accelerated filer," ■ "smaller reporting company," ■ and
"emerging growth company" in Rule 12b-2 of the F		
Large accelerated filer ✓ Non-accelerated filer □		Accelerated filer
Smaller reporting company		Emerging growth company \Box
If an emerging growth company, indicate by chany new or revised financial accounting standards pro		not to use the extended transition period for complying with Exchange Act. \Box
Indicate by check mark whether the registrant is	as a shell company (as defined in Rule	12b-2 of the Exchange Act). □Yes ☑No
Indicate the number of shares outstanding of ea Common Stock, par value \$0.001 per share, were outstanding of each of the share of the share of the shares outstanding of each of the shares outstanding		stock, as of the latest practicable date: 27,503,100 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)

		ne 30, 2022	Dec	eember 31, 2021
	(Una	nudited)		
Assets				
Current assets				
Cash and cash equivalents	\$	54,666	\$	65,929
Short-term marketable securities		24,379		11,580
Accounts receivable, net of allowance for doubtful accounts of \$2,130 and \$1,948 as of June 30, 2022, and				
December 31, 2021, respectively		82,469		80,051
Inventory		15,051		13,161
Income taxes receivable		2,627		1,321
Prepaid expenses and other current assets		11,484		11,450
Total current assets		190,676		183,492
Property and equipment, net		260,631		280,346
Goodwill		390,354		400,610
Other intangible assets, net		34,026		37,998
Long-term marketable securities		31,068		14,340
Operating lease assets		4,037		5,578
Finance lease assets		1,649		1,898
Long-term assets held for sale		1,985		-
Other long-term assets		4,223		4,320
Total assets	\$	918,649	\$	928,582
Liabilities and shareholders' equity Current liabilities				
Accounts payable	\$	15,642	\$	25,364
Accrued compensation		16,687		13,704
Accrued liabilities and other		24,011		11,980
Current operating lease liabilities		2,140		3,298
Current finance lease liabilities		436		550
Total current liabilities		58,916		54,896
Long-term operating lease liabilities		1,886		2,245
Long-term finance lease liabilities		1,188		1,351
Long-term deferred tax liabilities		30,177		35,892
Other long-term liabilities		5,784		5,705
Total liabilities		97,951		100,089
Shareholders' equity				
Preferred stock, \$0.001 par value, authorized 10,000,000 shares; issued and outstanding 0 shares as of each of June 30, 2022, and December 31, 2021		-		-
Common stock, \$0.001 par value, authorized 150,000,000 shares; issued and outstanding 27,503,100 and 27,465,945 shares as of June 30, 2022, and December 31, 2021, respectively		28		28
Additional paid-in capital		475,740		468,548
Retained earnings		381,079		376,734
Accumulated other comprehensive loss		(36,149)		(16,817)
		020 (00		828,493
Total shareholders' equity		820,698		040,493

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

		Three Mor	Six Months Ended June 30,					
	_	2022	_	2021		2022		2021
Statements of Operations:								
Revenue	\$	126,902	\$	123,048	\$	251,070	\$	239,174
Cost of revenue		69,480		66,423		137,844		127,219
Gross profit		57,422		56,625		113,226		111,955
Operating expenses								
Marketing and sales		21,055		21,044		41,641		40,524
Research and development		9,450		11,060		20,007		23,241
General and administrative		16,522		8,417		33,293		27,825
Closure of Japan business		5,194		<u>-</u>		5,194		
Total operating expenses		52,221		40,521		100,135		91,590
Income from operations		5,201		16,104		13,091		20,365
Other income (loss), net		1		137		(299)		(176)
Income before income taxes		5,202		16,241		12,792		20,189
Provision for income taxes		2,645		3,326		5,140		3,562
Net income	\$	2,557	\$	12,915	\$	7,652	\$	16,627
Net income per share:								
Basic	\$	0.09	\$	0.47	\$	0.28	\$	0.60
Diluted	\$	0.09	\$	0.47	\$	0.28	\$	0.60
Shares used to compute net income per share:								
Basic		27,530,739		27,735,732		27,515,583		27,600,684
Diluted		27,536,823		27,744,870		27,524,019		27,741,464
Comprehensive Income (Loss) (net of tax)								
Comprehensive income (loss)	\$	(11,287)	\$	14,896	\$	(11,680)	\$	11,932

Proto Labs, Inc. Consolidated Statements of Shareholders' Equity (In thousands, except share amounts)

Accumulated

	Common	Stock	A	dditional		Other			
	~ ·			Paid-In	Retained	Comprehensive			
-	Shares	Amount	_	Capital	Earnings	Loss	Total		
Balance at January 1, 2022	27,465,945	28		468,548	376,734	(16,817)	828,493		
Common shares issued on exercise of options and other,									
net of shares withheld for tax obligations	27,716	-		(462)	-	-	(462)		
Stock-based compensation expense	-	-		4,397	-	-	4,397		
Repurchases of common stock	-	-		-	5.005	-	5.005		
Net income Other comprehensive loss	-	-		-	5,095	-	5,095		
Foreign currency translation adjustment						(4,972)	(4,972)		
Net unrealized gains (losses) on investments in	-	-		-	-	(4,972)	(4,972)		
securities	_	_		_	_	(516)	(516)		
Comprehensive loss		_				(310)	(393)		
-	27,493,661	\$ 28	\$	472,483	\$ 381,829	\$ (22,305)	\$ 832,035		
Balance at March 31, 2022 Common shares issued on exercise of options and other,	27,473,001	ψ <u>20</u>	Ψ	472,403	9 301,027	\$ (22,303)	\$ 632,033		
net of shares withheld for tax obligations	122,705	_		1,158			1,158		
Stock-based compensation expense	122,703	-		4,031	-	-	4,031		
Repurchases of common stock	(113,266)			(1,932)	(3,307)	<u>-</u>	(5,239)		
Net income	(113,200)	_		(1,752)	2,557	_	2,557		
Other comprehensive loss					2,337		2,337		
Foreign currency translation adjustment	_	_		_	_	(13,515)	(13,515)		
Net unrealized gains (losses) on investments in						(15,515)	(13,313)		
securities	_	_		_	_	(329)	(329)		
Comprehensive loss						(0-5)	(11,287)		
Balance at June 30, 2022	27,503,100	\$ 28	\$	475,740	\$ 381,079	\$ (36,149)	\$ 820,698		
		on Stools		A J J 4 1		041			
		on Stock		Additional Paid-In	Retained	Other Comprehensive	Total		
	Shares	on Stock Amount			Retained Earnings		Total		
Balance at January 1, 2021	Shares 26,776,796	Amount	- ·	Paid-In		Comprehensive	Total 644,356		
Common shares issued on exercise of options and other, net of	Shares 26,776,796	Amount 5 2'	- ·	Paid-In Capital 284,848	362,901	Comprehensive Loss	644,356		
Common shares issued on exercise of options and other, net of shares withheld for tax obligations	Shares 26,776,796 48,955	Amount 2	7	Paid-In Capital 284,848 (290)	362,901	Comprehensive Loss	644,356 (290)		
Common shares issued on exercise of options and other, net of shares withheld for tax obligations Common shares issued for Hubs acquisition	Shares 26,776,796	Amount 2	7 - 1	Paid-In Capital 284,848 (290) 166,708	362,901	Comprehensive Loss	644,356 (290) 166,709		
Common shares issued on exercise of options and other, net of shares withheld for tax obligations Common shares issued for Hubs acquisition Stock-based compensation expense	Shares 26,776,796 48,955	Amount 2	7	Paid-In Capital 284,848 (290)	362,901	Comprehensive Loss	644,356 (290)		
Common shares issued on exercise of options and other, net of shares withheld for tax obligations Common shares issued for Hubs acquisition Stock-based compensation expense Repurchases of common stock	Shares 26,776,796 48,955	Amount 2	7 - 1	Paid-In Capital 284,848 (290) 166,708 5,620	362,901	Comprehensive Loss	644,356 (290) 166,709 5,620		
Common shares issued on exercise of options and other, net of shares withheld for tax obligations Common shares issued for Hubs acquisition Stock-based compensation expense Repurchases of common stock Net income	Shares 26,776,796 48,955	Amount 2	7 - 1	Paid-In Capital 284,848 (290) 166,708	362,901	Comprehensive Loss	644,356 (290) 166,709		
Common shares issued on exercise of options and other, net of shares withheld for tax obligations Common shares issued for Hubs acquisition Stock-based compensation expense Repurchases of common stock Net income Other comprehensive loss	Shares 26,776,796 48,955	Amount 2	7 - 1	Paid-In Capital 284,848 (290) 166,708 5,620	362,901	Comprehensive Loss (3,420)	644,356 (290) 166,709 5,620 - 3,712		
Common shares issued on exercise of options and other, net of shares withheld for tax obligations Common shares issued for Hubs acquisition Stock-based compensation expense Repurchases of common stock Net income Other comprehensive loss Foreign currency translation adjustment	Shares 26,776,796 48,955	Amount 2	7 - 1	Paid-In Capital 284,848 (290) 166,708 5,620	362,901	Comprehensive Loss (3,420) (6,842)	644,356 (290) 166,709 5,620 - 3,712 (6,842)		
Common shares issued on exercise of options and other, net of shares withheld for tax obligations Common shares issued for Hubs acquisition Stock-based compensation expense Repurchases of common stock Net income Other comprehensive loss Foreign currency translation adjustment Net unrealized gains (losses) on investments in securities	Shares 26,776,796 48,955	Amount 2	7 - 1	Paid-In Capital 284,848 (290) 166,708 5,620	362,901	Comprehensive Loss (3,420)	644,356 (290) 166,709 5,620 - 3,712 (6,842) 166		
Common shares issued on exercise of options and other, net of shares withheld for tax obligations Common shares issued for Hubs acquisition Stock-based compensation expense Repurchases of common stock Net income Other comprehensive loss Foreign currency translation adjustment Net unrealized gains (losses) on investments in securities Comprehensive loss	Shares 26,776,796 48,955 863,995	Amount	77 11 	Paid-In Capital 284,848 (290) 166,708 5,620	362,901	Comprehensive Loss (3,420) (6,842) 166	644,356 (290) 166,709 5,620 - 3,712 (6,842) 166 (2,964)		
Common shares issued on exercise of options and other, net of shares withheld for tax obligations Common shares issued for Hubs acquisition Stock-based compensation expense Repurchases of common stock Net income Other comprehensive loss Foreign currency translation adjustment Net unrealized gains (losses) on investments in securities Comprehensive loss Balance at March 31, 2021	Shares 26,776,796 48,955 863,995	Amount 2	77 11 	Paid-In Capital 284,848 (290) 166,708 5,620	362,901	Comprehensive Loss (3,420) (6,842) 166	644,356 (290) 166,709 5,620 - 3,712 (6,842) 166		
Common shares issued on exercise of options and other, net of shares withheld for tax obligations Common shares issued for Hubs acquisition Stock-based compensation expense Repurchases of common stock Net income Other comprehensive loss Foreign currency translation adjustment Net unrealized gains (losses) on investments in securities Comprehensive loss Balance at March 31, 2021 Common shares issued on exercise of options and other, net of	Shares 26,776,796 48,955 863,995	Amount 2 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	77 11 	Paid-In Capital 284,848 (290) 166,708 5,620 \$ 456,886	362,901 3,712 3,66,613	Comprehensive Loss (3,420) (6,842) 166	644,356 (290) 166,709 5,620 - 3,712 (6,842) 166 (2,964) \$ 813,431		
Common shares issued on exercise of options and other, net of shares withheld for tax obligations Common shares issued for Hubs acquisition Stock-based compensation expense Repurchases of common stock Net income Other comprehensive loss Foreign currency translation adjustment Net unrealized gains (losses) on investments in securities Comprehensive loss Balance at March 31, 2021 Common shares issued on exercise of options and other, net of shares withheld for tax obligations	Shares 26,776,796 48,955 863,995	Amount 2 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	77	Paid-In Capital 284,848 (290) 166,708 5,620 \$ 456,886	362,901 3,712 3,66,613	Comprehensive Loss (3,420) (6,842) 166	644,356 (290) 166,709 5,620 - 3,712 (6,842) 166 (2,964) \$ 813,431 (81)		
Common shares issued on exercise of options and other, net of shares withheld for tax obligations Common shares issued for Hubs acquisition Stock-based compensation expense Repurchases of common stock Net income Other comprehensive loss Foreign currency translation adjustment Net unrealized gains (losses) on investments in securities Comprehensive loss Balance at March 31, 2021 Common shares issued on exercise of options and other, net of	Shares 26,776,796 48,955 863,995	Amount 2	77	Paid-In Capital 284,848 (290) 166,708 5,620 \$ 456,886	362,901	Comprehensive Loss (3,420) (6,842) 166	644,356 (290) 166,709 5,620 - 3,712 (6,842) 166 (2,964) \$ 813,431		
Common shares issued on exercise of options and other, net of shares withheld for tax obligations Common shares issued for Hubs acquisition Stock-based compensation expense Repurchases of common stock Net income Other comprehensive loss Foreign currency translation adjustment Net unrealized gains (losses) on investments in securities Comprehensive loss Balance at March 31, 2021 Common shares issued on exercise of options and other, net of shares withheld for tax obligations Stock-based compensation expense	Shares 26,776,796 48,955 863,995 27,689,746 85,317	Amount 2 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	77	Paid-In Capital 284,848 (290) 166,708 5,620 \$ 456,886	362,901 3,712 \$ 366,613	Comprehensive Loss (3,420) (6,842) 166	644,356 (290) 166,709 5,620 - 3,712 (6,842) 166 (2,964) \$ 813,431 (81) 4,941		
Common shares issued on exercise of options and other, net of shares withheld for tax obligations Common shares issued for Hubs acquisition Stock-based compensation expense Repurchases of common stock Net income Other comprehensive loss Foreign currency translation adjustment Net unrealized gains (losses) on investments in securities Comprehensive loss Balance at March 31, 2021 Common shares issued on exercise of options and other, net of shares withheld for tax obligations Stock-based compensation expense Repurchases of common stock	Shares 26,776,796 48,955 863,995 27,689,746 85,317	Amount 2 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	77 11	Paid-In Capital 284,848 (290) 166,708 5,620 \$ 456,886 (81) 4,941 (149)	362,901 3,712 - \$ 366,613	Comprehensive Loss (3,420) (6,842) 166	644,356 (290) 166,709 5,620 - 3,712 (6,842) 166 (2,964) \$ 813,431 (81) 4,941 (1,210)		
Common shares issued on exercise of options and other, net of shares withheld for tax obligations Common shares issued for Hubs acquisition Stock-based compensation expense Repurchases of common stock Net income Other comprehensive loss Foreign currency translation adjustment Net unrealized gains (losses) on investments in securities Comprehensive loss Balance at March 31, 2021 Common shares issued on exercise of options and other, net of shares withheld for tax obligations Stock-based compensation expense Repurchases of common stock Net income Other comprehensive income Foreign currency translation adjustment	Shares 26,776,796 48,955 863,995 27,689,746 85,317	Amount 2 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	77 11	Paid-In Capital 284,848 (290) 166,708 5,620 \$ 456,886 (81) 4,941 (149)	362,901 3,712 - \$ 366,613	Comprehensive Loss (3,420) (6,842) 166	(290) 166,709 5,620 - 3,712 (6,842) 166 (2,964) \$ 813,431 (81) 4,941 (1,210) 12,915		
Common shares issued on exercise of options and other, net of shares withheld for tax obligations Common shares issued for Hubs acquisition Stock-based compensation expense Repurchases of common stock Net income Other comprehensive loss Foreign currency translation adjustment Net unrealized gains (losses) on investments in securities Comprehensive loss Balance at March 31, 2021 Common shares issued on exercise of options and other, net of shares withheld for tax obligations Stock-based compensation expense Repurchases of common stock Net income Other comprehensive income Foreign currency translation adjustment Net unrealized gains (losses) on investments in securities	Shares 26,776,796 48,955 863,995 27,689,746 85,317	Amount 2 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	77 11	Paid-In Capital 284,848 (290) 166,708 5,620 \$ 456,886 (81) 4,941 (149)	362,901 3,712 - \$ 366,613	Comprehensive Loss (3,420) (6,842) 166 \$ (10,096)	(290) 166,709 5,620 - 3,712 (6,842) 166 (2,964) \$ 813,431 (81) 4,941 (1,210) 12,915 2,030 (49)		
Common shares issued on exercise of options and other, net of shares withheld for tax obligations Common shares issued for Hubs acquisition Stock-based compensation expense Repurchases of common stock Net income Other comprehensive loss Foreign currency translation adjustment Net unrealized gains (losses) on investments in securities Comprehensive loss Balance at March 31, 2021 Common shares issued on exercise of options and other, net of shares withheld for tax obligations Stock-based compensation expense Repurchases of common stock Net income Other comprehensive income Foreign currency translation adjustment	Shares 26,776,796 48,955 863,995 27,689,746 85,317	Amount 5 2' 6 3 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	77	Paid-In Capital 284,848 (290) 166,708 5,620 \$ 456,886 (81) 4,941 (149)	362,901 3,712 - \$ 366,613	Comprehensive Loss (3,420) (6,842) 166 \$ (10,096)	(290) 166,709 5,620 - 3,712 (6,842) 166 (2,964) \$ 813,431 (81) 4,941 (1,210) 12,915		
Common shares issued on exercise of options and other, net of shares withheld for tax obligations Common shares issued for Hubs acquisition Stock-based compensation expense Repurchases of common stock Net income Other comprehensive loss Foreign currency translation adjustment Net unrealized gains (losses) on investments in securities Comprehensive loss Balance at March 31, 2021 Common shares issued on exercise of options and other, net of shares withheld for tax obligations Stock-based compensation expense Repurchases of common stock Net income Other comprehensive income Foreign currency translation adjustment Net unrealized gains (losses) on investments in securities	Shares 26,776,796 48,955 863,995 27,689,746 85,317 (14,000	Amount 5 2' 6 3 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	77	Paid-In Capital 284,848 (290) 166,708 5,620 \$ 456,886 (81) 4,941 (149)	**Second Second	Comprehensive Loss (3,420) (6,842) 166 \$ (10,096) 2,030 (49)	(290) 166,709 5,620 - 3,712 (6,842) 166 (2,964) \$ 813,431 (81) 4,941 (1,210) 12,915 2,030 (49) 14,896		

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

		Six Months 1 June 30	
Purchases of property, equipment and other capital assets Cash used for acquisitions, net of cash acquired Purchases of marketable securities Proceeds from sales of marketable securities Proceeds from call redemptions and maturities of marketable securities Net cash used in investing activities Inancing activities Proceeds from exercises of stock options Purchases of shares withheld for tax obligations Repurchases of common stock Principal repayments of finance lease obligations Net cash used in financing activities Effect of exchange rate changes on cash and cash equivalents et decrease in cash and cash equivalents, beginning of period		2022	2021
Operating activities			
	\$	7,652 \$	16,627
Adjustments to reconcile net income to net cash provided by operating activities:	•	.,	.,
		20,274	20,127
		8,428	10,561
		(5,653)	419
Fair value of contingent consideration		-	(7,763)
		1,792	-
Other		32	269
Changes in operating assets and liabilities:			
Accounts receivable		(5,748)	(23,296)
Inventories		(1,783)	1,727
Prepaid expenses and other		(298)	1,810
Income taxes		(1,250)	(4,015)
Accounts payable		(521)	5,011
Accrued liabilities and other		8,115	(748)
Net cash provided by operating activities		31,040	20,729
Investing activities			
		(6,030)	(23,929)
		-	(127,413)
		(38,882)	(15,159)
Proceeds from sales of marketable securities		1,000	47,694
Proceeds from call redemptions and maturities of marketable securities		7,396	13,725
		(36,516)	(105,082)
Financing activities			
		2,311	3,838
		(1,615)	(4,209)
		(5,239)	(1,210)
		(278)	(275)
		(4,821)	(1,856)
		(966)	515
		(11,263)	(85,694)
•		65,929	127,603
Cash and cash equivalents, end of period	\$	54,666 \$	41,909

Notes to 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, 2021, as filed with the Securities and Exchange Commission (SEC) on February 18, 2022.

The accompanying Consolidated Balance Sheet as of December 31, 2021 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 Quarterly Report on 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 18, 2022 as referenced above

On May 27, 2022, the Company's board of directors approved a plan for the closure of the Company's manufacturing facility in Japan and announced an intention to cease operations in the region. Affected employees in Japan will receive severance and other transition assistance that meet or exceed local requirements. The Company expects to substantially complete the closure plan within the next year. The Company's decision to close the Japan business resulted in \$5.2 million in operating expenses during the three and six months ended June 30, 2022. Operating expenses included \$2.2 million of employee severance, \$1.2 million related to the write-down of fixed assets, \$0.9 million of facility-related charges, \$0.6 million in goodwill impairment charges and \$0.3 million in other closure related charges for the three and six months ended June 30, 2022.

Note 2 - Recent Accounting Pronouncements

The Company did not recently adopt any accounting pronouncements that had a material impact on the Company's Consolidated Financial Statements. There are no pending accounting pronouncements that are expected to have a material impact on the Company's Consolidated Financial Statements.

Note 3 – 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 and other stock-based 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. For the three and six months ended June 30, 2022, 220,776 and 208,840 anti-dilutive options were excluded from the calculation of diluted weighted average shares outstanding.

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

	Three Moi Jun	Six Months Ended June 30,					
(in thousands, except share and per share amounts)	 2022	2021		2022		2021	
Net income	\$ 2,557	\$ 12,915	\$	7,652	\$	16,627	
Basic - weighted-average shares outstanding:	27,530,739	27,735,732		27,515,583		27,600,684	
Effect of dilutive securities:							
Employee stock options and other	 6,084	9,138		8,436		140,780	
Diluted - weighted-average shares outstanding:	 27,536,823	 27,744,870		27,524,019		27,741,464	
Net income per share:							
Basic	\$ 0.09	\$ 0.47	\$	0.28	\$	0.60	
Diluted	\$ 0.09	\$ 0.47	\$	0.28	\$	0.60	

Note 4 – Business Combinations

On January 22, 2021, the Company acquired all of the outstanding shares of 3D Hubs, Inc. (Hubs), for \$294.1 million, consisting of \$127.4 million in cash and 863,995 shares of the Company's common stock valued at \$166.7 million on the closing date. The purchase agreement included additional contingent consideration of up to \$52.8 million subject to the achievement of performance-based targets during fiscal 2021 and fiscal 2022. The contingent consideration consisted of up to \$25.0 million in cash and up to 143,983 shares of the Company's common stock valued at \$27.8 million on the closing date. The Company initially recorded a liability of \$13.6 million related to the contingent consideration, which was subsequently reversed when it was determined the performance based targets would not be met in 2021 and the expectation that those targets would not be met in fiscal 2022. The reversal of the contingent consideration was recorded as a decrease in general and administrative expense in the Consolidated Statements of Comprehensive Income.

Hubs is based in Amsterdam, Netherlands and is a leading online manufacturing platform that provides customers with on-demand access to a global network of premium manufacturing partners. The acquisition enhances the Company's value proposition by expanding the customer offerings, enabling the Company to more holistically serve its customers.

The fair value of the consideration paid for this acquisition has been allocated to the assets purchased and liabilities assumed based on their fair values as of the acquisition date, with any excess recorded as goodwill. The goodwill associated with the acquisition represents both the strategic and growth opportunities by significantly expanding the customer offering with a network of premium manufacturing partners. The goodwill related to the acquisition is not deductible for tax purposes.

The acquisition has been accounted for under the acquisition method of accounting in accordance with ASC 805, *Business Combinations*. The final purchase price allocation was as follows:

(in thousands)	Acquisition
Assets acquired:	
Current assets	\$ 2,497
Intangible assets	30,770
Goodwill	280,925
Other long-term assets	1,139
Total assets acquired	315,331
Liabilities assumed:	
Current contingent consideration	7,093
Current liabilities	5,666
Long-term contingent consideration	6,507
Long-term deferred tax liabilities	1,688
Other long-term liabilities	255
Total liabilities assumed	21,209
Net assets acquired	294,122
Cash paid	133,847
Cash acquired	(6,434
Net cash consideration	127,413
Equity portion of purchase price	166,709
Total purchase consideration	\$ 294,122

Note 5 – Goodwill and Other Intangible Assets

The changes in the carrying amount of goodwill during the six months ended June 30, 2022 were as follows:

(in thousands)	Six Months Ended June 30, 2022
Balance as of the beginning of the period	\$ 400,610
Goodwill acquired during the period	-
Goodwill written off during the period	(630)
Foreign currency translation adjustments	(9,626)
Balance as of the end of the period	\$ 390,354

Goodwill of \$0.6 million was written off as of June 30, 2022, as a result of the Company's decision to close the Japan manufacturing facility and exit the Japan market. The Japan business was in operations through the second quarter of 2022 and the assets are expected to be available for sale during the second half of 2022. Goodwill has been allocated to the acquired Hubs entities consisting of goodwill of €106.5 million in Europe and \$151.3 million in the United States as of the date of the acquisition. The Euro denominated goodwill is translated at the end of each period using the current exchange rates resulting in a foreign currency translation adjustment that is recorded as a component of Other Comprehensive Income.

Intangible assets other than goodwill at June 30, 2022 and December 31, 2021 were as follows:

		e 30, 2022		December 31, 2021					Useful	Weighted Average			
(in thousands)	Gross		umulated ortization		Net		Gross		umulated ortization		Net	Life (in years)	Useful Life Remaining (in years)
Intangible assets with finite													
lives:													
Marketing assets	\$ 930	\$	(759)	\$	171	\$	930	\$	(713)	\$	217	10.0	1.8
Non-compete agreement	822		(423)		399		842		(363)		479	2.0 - 5.0	2.5
Software technology	13,229		(5,699)		7,530		13,229		(5,014)		8,215	10.0	6.0
Software platform	25,777		(3,239)		22,538		26,725		(2,262)		24,463	12.0	10.6
Tradenames	346		(167)		179		359		(114)		245	3.0	1.6
Customer relationships	12,174		(8,965)		3,209		12,252		(7,873)		4,379	3.0 - 9.0	1.3
Total intangible assets	\$ 53,278	\$	(19,252)	\$	34,026	\$	54,337	\$	(16,339)	\$	37,998		

Intangible assets have been allocated to the acquired Hubs entities consisting of intangible assets of €11.6 million in Europe and \$16.6 million in the United States as of the date of the acquisition. The Euro denominated intangible assets are translated at the end of each period using the current exchange rates resulting in a foreign currency translation adjustment that is recorded as a component of Other Comprehensive Income. Foreign currency losses related to intangible assets were \$2.0 and \$0.9 million as of June 30, 2022 and December 31, 2021, respectively. Amortization expense for intangible assets was \$1.5 million for each of the three months ended June 30, 2022 and 2021, and \$3.1 million and \$3.0 million for the six months ended June 30, 2022 and 2021, respectively.

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

(in thousands)	Ame	timated ortization xpense
Remaining 2022	\$	3,029
2023		5,855
2024		3,706
2025		3,608
2026		3,508
Thereafter		14,320
Total estimated amortization expense	\$	34,026

Note 6 – Assets Held for Sale

Assets are classified as held for sale and presented separately on the Consolidated Balance Sheet when all of the following criteria for a plan of sale have been met: (1) management, having the authority to approve the action, commits to a plan to sell the assets; (2) the assets are available for immediate sale, in their present condition, subject only to terms that are usual and customary for sales of such assets; (3) an active program to locate a buyer and other actions required to complete the plan to sell the assets have been initiated; (4) the sale of the assets is probable and is expected to be completed within one year; (5) the assets are being actively marketed for a price that is reasonable in relation to their current fair value; and (6) actions required to complete the plan indicate that it is unlikely that significant changes to the plan will be made or the plan will be withdrawn. The assets are then recorded at the lower of their current carrying value or the fair market value, less costs to sell.

During the first quarter of 2022, a facility the Company owns in Maple Plain, Minnesota, encompassing approximately 35,000 square feet of manufacturing and office space, met the criteria to be held for sale. The assets held for sale were \$2.0 million as of June 30, 2022 and are presented on the Company's Consolidated Balance Sheet as Long-term assets held for sale. The assets held for sale had no impact on the Company's Consolidated Statements of Operations during the three or six months ended June 30, 2022.

Note 7 – Fair Value Measurements

Accounting Standards Codification, *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 assets and liabilities that are required to be measured or disclosed at fair value on a recurring basis include cash and cash equivalents and marketable securities. The Company's cash consists of bank deposits. The Company determines the fair value of these investments using Level 1 inputs. The Company's marketable securities consist of short-term and long-term agency, municipal, corporate and other debt securities. Fair value for the corporate debt securities is primarily determined based on quoted market prices (Level 1). Fair values for the U.S. municipal securities, U.S. government agency securities, certificates of deposit and U.S. treasury securities are primarily determined using dealer quotes or quoted market prices for similar securities (Level 2).

The following table summarizes financial assets as of June 30, 2022 and December 31, 2021 measured at fair value on a recurring basis:

			Jun	e 30, 2022		December 31, 2021						
(in thousands)		Level 1	I	Level 2	J	Level 3]	Level 1	I	Level 2	Lev	el 3
Financial Assets:												
Cash	\$	44,886	\$	-	\$	-	\$	65,637	\$	-	\$	-
Money market mutual fund		9,780		-		-		292		-		-
Marketable securities		15,851		39,596		-		7,602		18,318		-
Total	\$	70,517	\$	39,596	\$	-	\$	73,531	\$	18,318	\$	-

Note 8 - Marketable Securities

The Company invests in short-term and long-term agency, municipal, corporate and other debt securities. The securities are categorized as available-for-sale and are recorded at fair value. The following table summarizes information regarding the Company's short-term and long-term marketable securities as of June 30, 2022 and December 31, 2021:

	June 30, 2022						
			Unrealized	1	Unrealized		
(in thousands)		Cost	Gains		Losses	Fai	r Value
U.S. municipal securities	\$	17,893	\$	- :	\$ (365)	\$	17,528
Corporate debt securities		12,299		-	(234)		12,065
U.S. government agency securities		22,284		2	(355)		21,931
Certificates of deposit/time deposits		941		-	(6)		935
Commercial paper		2,994		-	(6)		2,988
Total marketable securities	\$	56,411	\$	2	\$ (966)	\$	55,447

	December 31, 2021							
			Ur	ırealized	Ur	ırealized		
(in thousands)		Cost		Gains]	Losses	Fai	r Value
U.S. municipal securities	\$	12,549	\$	-	\$	(70)	\$	12,479
Corporate debt securities		9,303		-		(44)		9,259
U.S. government agency securities		2,500		-		(12)		2,488
Certificates of deposit/time deposits		1,687		7		-		1,694
Commercial paper		-		-		-		-
Total marketable securities	\$	26,039	\$	7	\$	(126)	\$	25,920

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, certificates of deposit and U.S. treasury securities are primarily determined using dealer quotes or quoted market prices for similar securities (Level 2).

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 June 30, 2022 balance of available-for-sale debt securities by contractual maturity is shown in the following table at fair value. 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)	June 30, 2022
Due in one year or less	\$ 24,379
Due after one year through five years	31,068
Total marketable securities	\$ 55,447

Note 9 - Inventory

Inventory consists primarily of raw materials, which are recorded at the lower of cost and net realizable value using the standard 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)	June 30, 2022	Dec	cember 31, 2021
Total inventory	\$ 15,817	\$	13,474
Allowance for obsolescence	(766)		(313)
Inventory, net of allowance	\$ 15,051	\$	13,161

Note 10 – Stock-Based Compensation

Under the Company's 2012 Long-Term Incentive Plan, as amended (the 2012 Plan), the Company had the ability to grant stock options, stock appreciation rights (SARs), restricted stock, restricted stock units, other stock-based awards and cash incentive awards through February 23, 2022. On July 8, 2022, the board of directors approved the Proto Labs, Inc. 2022 Long-Term Incentive Plan (the 2022 Plan), which will take effect on August 29, 2022 subject to approval by the Company's shareholders at our previously noticed Special Meeting of Shareholders on August 29, 2022. No awards have been granted since February 23, 2022 or will be granted under the 2012 Plan until a new long-term incentive plan is approved by shareholders. 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 \$4.0 million and \$4.9 million for the three months ended June 30, 2022 and 2021, respectively, and \$8.4 and \$10.6 million for the six months ended June 30, 2022 and 2021, respectively.

Stock Options

The following table summarizes stock option activity during the six months ended June 30, 2022:

	Stock Options	Weighted- Average Exercise Price
Options outstanding at December 31, 2021	233,384	\$ 97.78
Granted	52,992	59.40
Exercised	(3,114)	30.58
Forfeited	(34,075)	90.61
Expired	(28,411)	84.92
Options outstanding at June 30, 2022	220,776	\$ 92.28
Exercisable at June 30, 2022	113,652	\$ 92.57

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 of four to five years, beginning on the first anniversary of the grant date, subject to the employee's continuing service to the Company. For the board of 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 six months ended June 30, 2022 was \$27.84.

The following table provides the assumptions used in the Black-Scholes pricing model valuation of options during the six months ended June 30, 2022 and 2021:

	Six Months 1	Ended June 30,
	2022	2021
Risk-free interest rate	1.94%	0.80% - 1.12%
Expected life (years)	6.25	6.25
Expected volatility	45.95%	45.28 - 45.35%
Expected dividend yield	0%	0%

As of June 30, 2022, there was \$4.0 million of unrecognized compensation expense related to unvested stock options, which is expected to be recognized over a weighted-average period of 2.7 years.

Restricted Stock

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

The following table summarizes restricted stock activity during the six months ended June 30, 2022:

	Restricted Stock	Weighted- Average Grant Date Fair Value Per Share
Restricted stock at December 31, 2021	343,782	\$ 111.79
Granted	44,782	59.40
Restrictions lapsed	(119,315)	105.06
Forfeited	(32,814)	107.48
Restricted stock at June 30, 2022	236,435	\$ 105.90

As of June 30, 2022, there was \$18.8 million of unrecognized compensation expense related to non-vested restricted stock, which is expected to be recognized over a weighted-average period of 2.3 years.

Performance Stock

Performance stock units (PSUs) are expressed in terms of a target number of PSUs, with anywhere between 0 percent and 200 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 Company's PSUs granted from 2017 to 2019 and certain PSUs granted in 2021 are based on performance conditions and the related compensation cost is based on the probability that the performance conditions will be achieved. The Company's PSUs granted in 2020 and 2022 and certain PSUs granted in 2021 are based on market conditions and the related compensation cost is based on the fair value at grant date calculated using a Monte Carlo pricing model.

The following table summarizes performance stock activity during the six months ended June 30, 2022:

	Performance Stock	Weighted- Average Grant Date Fair Value Per Share
Performance stock at December 31, 2021	16,839	\$ 115.56
Granted	32,620	100.33
Restrictions lapsed	-	-
Performance change	-	-
Forfeited	(3,578)	121.79
Performance stock at June 30, 2022	45,881	\$ 113.25

The following table provides the assumptions used in the Monte Carlo pricing model valuation of PSUs during the six months ended June 30, 2022 and 2021:

	Six Months E	Six Months Ended June 30,			
	2022	2021			
Risk-free interest rate	1.76%	0.22%			
Expected life (years)	2.87	2.87			
Expected volatility	53.50%	51.40%			
Expected dividend yield	0%	0%			

As of June 30, 2022, there was \$3.0 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 six months ended June 30, 2022 and 2021:

	Six Months E	nded June 30,
	2022	2021
Risk-free interest rate	0.17 - 2.06%	0.06 - 0.12%
Expected life (months)	6.00	6.00
Expected volatility	47.05 - 53.44%	50.85 - 65.53%
Expected dividend yield	0%	0%

Note 11 - Accumulated Other Comprehensive Income (Loss)

Other comprehensive income (loss) is comprised of foreign currency translation adjustments and net unrealized gains (losses) on investments in securities. The following table presents the changes in accumulated other comprehensive income (loss) balances during the three and six months ended June 30, 2022 and 2021:

		Three Mon June	 inded	Six Mont June	 ded
(in thousands)		2022	 2021	 2022	 2021
Balance at beginning of period	\$	(22,305)	\$ (10,096)	\$ (16,817)	\$ (3,420)
Foreign currency translation adjustments					
Other comprehensive income (loss) before reclassifications		(13,515)	2,030	(18,487)	(4,812)
Amounts reclassified from accumulated other comprehensive loss		-	-	-	-
Net current-period other comprehensive income (loss)		(13,515)	2,030	(18,487)	(4,812)
Net unrealized gains (losses) on investments in securities					
Other comprehensive income (loss) before reclassifications		(329)	(49)	(845)	117
Amounts reclassified from accumulated other comprehensive loss		-	-	-	-
Net current-period other comprehensive income (loss)		(329)	(49)	(845)	117
Balance at end of period	\$	(36,149)	\$ (8,115)	\$ (36,149)	\$ (8,115)

Note 12 - 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 June 30, 2022 and 2021, the Company recorded an income tax provision of \$2.6 million and \$3.3 million, respectively. For the six months ended June 30, 2022 and 2021, the Company recorded an income tax provision of \$5.1 million and \$3.6 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 June 30, 2022 was 50.8 percent compared to 20.5 percent in the same period of the prior year. The effective tax rate increased by 30.3 percent for the three months ended June 30, 2022 when compared to the same period in 2021, primarily due to a decrease in tax benefits from the vesting of restricted stock and the exercise of stock options, as well as an increase in losses in jurisdictions, primarily Japan, that are not eligible for tax benefits due to valuation allowances. The effective tax rate increased by 22.6 percent for the six months ended June 30, 2022 when compared to 17.6 percent in the same period of the prior year. The effective tax rate increased by 22.6 percent for the six months ended June 30, 2022 when compared to the same period in 2021, primarily due to a decrease in tax benefits from the vesting of restricted stock and the exercise of stock options, as well as an increase in losses in jurisdictions, primarily Japan, that are not eligible for tax benefits due to valuation allowances.

The effective income tax rate for the six months ended June 30, 2022 differs from the U.S. federal statutory rate of 21.0 percent due to various factors, including operating in multiple state and foreign jurisdictions and tax credits for which the Company qualifies.

The Company had unrecognized tax benefits totaling \$4.3 million as of June 30, 2022 and \$4.4 million as of December 31, 2021, respectively, that if recognized would result in a reduction of the Company's effective tax rate. The liabilities are classified as other long-term liabilities in the accompanying consolidated balance sheets. 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 13 – 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 and six months ended June 30, 2022 and 2021 were as follows:

	Three Months Ended June 30,				Six Months Ended June 30,			
(in thousands)	2022			2021 2022			2021	
Revenue:								
United States	\$	100,655	\$	95,344	\$	196,151	\$	186,397
Europe		23,391		24,655		47,977		46,104
Japan		2,856		3,049		6,942		6,673
Total revenue	\$	126,902	\$	123,048	\$	251,070	\$	239,174

	Three Months Ended June 30,					Six Months Ended June 30,			
(in thousands)	2022		2021			2022		2021	
Income (Loss) from Operations:									
United States	\$	26,168	\$	26,280	\$	48,691	\$	48,783	
Europe		(2,249)		5,063		(3,928)		3,692	
Corporate Unallocated and Japan		(18,718)		(15,239)		(31,672)		(32,110)	
Total Income from Operations	\$	5,201	\$	16,104	\$	13,091	\$	20,365	

Total long-lived assets at June 30, 2022 and December 31, 2021 were as follows:

(in thousands)	 June 30, 2022	December 31, 2021
Total long-lived assets:		
United States	\$ 205,090	\$ 215,701
Europe	52,880	59,388
Japan	2,661	5,257
Total Long-lived Assets	\$ 260,631	\$ 280,346

The Company's decision to exit Japan resulted in a \$1.2 million impairment of fixed assets during the three and six months ended June 30, 2022. The Japan business was in operations through the second quarter of 2022 and the fixed assets are expected to be available for sale during the second half of 2022.

Revenue by product line for the three and six months ended June 30, 2022 and 2021 were as follows:

	Three Months Ended June 30,					Six Months Ended June 30,			
(in thousands)		2022		2021		2022		2021	
Revenue:									
Injection Molding	\$	53,355	\$	58,168	\$	106,753	\$	114,527	
CNC Machining		48,222		41,592		94,320		78,295	
3D Printing		19,963		18,170		39,635		35,405	
Sheet Metal		5,160		4,717		9,847		9,936	
Other Revenue		202		401		515		1,011	
Total revenue	\$	126,902	\$	123,048	\$	251,070	\$	239,174	

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, 2021.

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," "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 this Form 10-Q, as well as our most recent Annual Report on Form 10-K as filed with the Securities and Exchange Commission (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 one of the world's largest and fastest digital manufacturers of custom prototypes and on-demand production parts. Our mission is to empower companies to bring new ideas to market by offering the fastest and most comprehensive digital manufacturing service in the world. Our automated quoting and manufacturing systems allow us to produce commercial-grade plastic, metal, and liquid silicone rubber parts in as fast as one day. We manufacture prototype 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. For most of our offerings, 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. In addition, we serve procurement and supply chain professionals seeking to manufacture custom parts on-demand. Through the acquisition of Hubs (formerly 3D Hubs, Inc.) (Hubs) in 2021, we are able to provide our customers access to a global network of premium manufacturing partners who reside across North America, Europe and Asia, complementing our in-house manufacturing. We believe our use of advanced technology enables us to offer significant advantages at competitive prices to many customers and is the primary reason we have become a leading supplier of custom parts.

On May 27, 2022, our board of directors approved a plan for the closure of our manufacturing facility in Japan and announced an intention to cease operations in the region. Affected employees in Japan will receive severance and other transition assistance that meet or exceed local requirements. We expect to substantially complete the closure plan within the next year. Our decision to close the Japan business resulted in \$5.2 million in operating expenses during the three and six months ended June 30, 2022. Operating expenses included \$2.2 million of employee severance, \$1.2 million related to the write-down of fixed assets, \$0.9 million of facility-related charges, \$0.6 million in goodwill impairment charges and \$0.3 million in other closure related charges for the three and six months ended June 30, 2022.

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. In 2021, we augmented our internal manufacturing operations through our acquisition of Hubs to expand the envelope of custom parts we can provide to our customers through a network of premium manufacturing partners in each of our product lines.

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 molds and quick turnaround times help reduce design risk and limit overall production costs for product developers and engineers. Because we retain possession of the molds, customers who need short-run production often come back to Proto Labs' 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.

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 customer. CNC turning is a subtractive manufacturing process that rotates a metal rod while a cutting tool is used to remove material and create final parts. Quick-turn CNC machining works best for prototyping, form and fit testing, jigs and fixtures and functional components for end-use applications.

Industrial 3D Printing

Our Industrial 3D Printing product line includes SL, SLS, DMLS, MJF, PolyJet, Carbon DLS and fused deposition modeling (FDM) 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.

Sheet Metal

Our Sheet Metal product line includes quick-turn and e-commerce-enabled custom sheet metal parts, providing 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 customer to fabricate rapid prototyping sheet metal or end-use production parts and assemblies.

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:

- expanding the breadth and scope of our products by adding more sizes and materials to our offerings;
- the introduction of our 3D Printing product line through our acquisition of FineLine in 2014;
- expanding 3D Printing to Europe through our acquisition of Alphaform in 2015;
- the introduction of our Sheet Metal product line through our acquisition of Rapid Manufacturing Group, LLC in 2017;
- continuously improving the usability of our product lines such as our web-centric applications; and
- providing customers with on-demand access to a global network of premium manufacturing partners through our acquisition of Hubs in 2021.

During the three months ended June 30, 2022, we served 24,058 unique product developers and engineers who purchased our products through our webbased customer interface, an increase of 3.4% over the same period in 2021. During the six months ended June 30, 2022, we served 36,878 unique product developers and engineers who purchased our products through our web-based customer interface, an increase of 5.2% over the same period in 2021.

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 customer parts. We expect our personnel-related costs to increase in order to retain and attract top talent and remain competitive in the market. Overall, we expect cost of revenue to increase in absolute dollars.

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, manufacturing costs, the costs associated with increasing production capacity, the mix between domestic and foreign revenue sources, the mix between revenue produced in our internal manufacturing operations and outsourced to our external manufacturing partners, 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.

The launch of our Protolabs 2.0 project, an internal business systems initiative impacting both external customer-facing and internal back-end systems, in the United States in the first quarter of 2021, and our acquisition of Hubs in January 2021, led to higher operating expenses in the first six months of 2021. Our business strategy is to continue to be a leading online and technology-enabled manufacturer of quick-turn, on-demand injection-molded, CNC-machined, 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 in the future.

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, which includes an allocation of information technology expense including amortization of Protolabs 2.0 software assets. 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. Costs for internal use software are evaluated by project and capitalized where appropriate under ASC 350-40, Intangibles — Goodwill and Other, Internal-Use Software. We expect research and development expense to increase in the future as we seek to enhance our e-commerce interface technology, internal software and supporting business systems, and continue to expand our product lines.

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, which includes an allocation of information technology expense including amortization of Protolabs 2.0 software assets. We expect general and administrative expense to increase in the future as we continue to grow and expand as a global organization.

Closure of Japan business. Closure of Japan business expense is driven by our decision to close the Japan manufacturing facility and exit the Japan market. The expenses consist primarily of operating expense, including employee severance, write-down of fixed assets, facility-related charges and goodwill impairment charges.

Other Income (Loss), net

Other income (loss), 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. Overall, our effective tax rate for 2022 and beyond may differ from historical effective tax rates due to increases in losses in foreign operations that are not eligible for tax benefits on account of valuation allowances, as well as any future tax law changes that may impact our effective tax rate.

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 M	onths E	nded June 30),	Cha	nge	Six Mo	nths End	ded June 30,		Chai	ıge
(dollars in thousands)	 2022		2021		\$	%	2022		2021		\$	%
Revenue	\$ 126,902	100.0	\$ 123,048	100.0	\$ 3,854	3.1	\$ 251,070	100.0	\$ 239,174	100.0	\$11,896	5.0
Cost of revenue	 69,480	54.8	66,423	54.0	3,057	4.6	137,844	54.9	127,219	53.2	10,625	8.4
Gross profit	57,422	45.2	56,625	46.0	797	1.4	113,226	45.1	111,955	46.8	1,271	1.1
Operating expenses:												
Marketing and sales	21,055	16.6	21,044	17.1	11	0.1	41,641	16.6	40,524	16.9	1,117	2.8
Research and development	9,450	7.4	11,060	9.0	(1,610)	(14.6)	20,007	8.0	23,241	9.7	(3,234)	(13.9)
General and administrative	16,522	13.0	16,180	13.1	342	2.1	33,293	13.2	35,588	14.9	(2,295)	(6.4)
Closure of Japan business	5,194	4.1	-	-	5,194	100.0	5,194	2.1	-	-	5,194	100.0
Changes in fair value of contingent												
consideration		(0.0)	(7,763)	(6.3)	7,763	(100.0)		-	(7,763)	(3.2)	7,763	(100.0)
Total operating expenses	 52,221	41.1	40,521	32.9	11,700	28.9	100,135	39.9	91,590	38.3	8,545	9.3
Income from operations	5,201	4.1	16,104	13.1	(10,903)	(67.7)	13,091	5.2	20,365	8.5	(7,274)	(35.7)
Other income (loss), net	1	0.0	137	0.1	(136)	(99.3)	(299)	(0.1)	(176)	(0.1)	(123)	69.9
Income before income taxes	5,202	4.1	16,241	13.2	(11,039)	(68.0)	12,792	5.1	20,189	8.4	(7,397)	(36.6)
Provision for income taxes	2,645	2.1	3,326	2.7	(681)	(20.5)	5,140	2.1	3,562	1.5	1,578	44.3
Net income	\$ 2,557	2.0%	\$ 12,915	10.5%	\$ (10,358)	(80.2)%	\$ 7,652	3.0%	<u>\$ 16,627</u>	7.0%	\$(8,975)	(54.0)%

Stock-based compensation expense included in the statements of operations data above for the three and six months ended June 30, 2022 and 2021 were as follows:

	Thr	ee Months	Ende	d June 30,	Si	x Months E	nded	June 30,
(dollars in thousands)	2022		2021		2022			2021
Stock options, restricted stock and performance stock	\$	3,668	\$	4,563	\$	7,674	\$	9,854
Employee stock purchase plan		363		378		754		707
Total stock-based compensation expense	\$	4,031	\$	4,941	\$	8,428	\$	10,561
Cost of revenue	\$	528	\$	668	\$	1,115	\$	1,303
Operating expenses:								
Marketing and sales		813		929		1,550		1,782
Research and development		471		744		1,100		1,368
General and administrative		2,219		2,600		4,663		6,108
Total stock-based compensation expense	\$	4,031	\$	4,941	\$	8,428	\$	10,561

Comparison of Three Months Ended June 30, 2022 and 2021

Revenue

Revenue by reportable segment and the related changes for the three months ended June 30, 2022 and 2021 were as follows:

		-	Three Months End	ed June 30,				
		202	22	202	21	Change		
	-		% of Total		% of Total			
(dollars in thousands)		\$	Revenue	\$	Revenue	\$	%	
Revenue		_						
United States	\$	100,655	79.3% \$	95,344	77.5% 5	\$ 5,311	5.6%	
Europe		23,391	18.4	24,655	20.0	(1,264)	(5.1)	
Japan		2,856	2.3	3,049	2.5	(193)	(6.3)	
Total revenue	\$	126,902	100.0% \$	123,048	100.0%	\$ 3,854	3.1%	

Our revenue increased \$3.9 million, or 3.1%, for the three months ended June 30, 2022 compared to the same period in 2021. By reportable segment, revenue in the United States increased \$5.3 million, or 5.6%, for the three months ended June 30, 2022 compared to the same period in 2021. Revenue in Europe decreased \$1.3 million, or 5.1%, and revenue in Japan decreased \$0.2 million, or 6.3%, in each case for the three months ended June 30, 2022 compared to the same period in 2021. Our acquisition of Hubs provided revenue of \$5.9 million and \$4.6 million in the United States and \$5.4 million and \$4.3 million in Europe for each of the three months ended June 30, 2022 and 2021, respectively. International revenue was negatively impacted by \$2.7 million during the three months ended June 30, 2022 compared to the same period in 2021 as a result of foreign currency movements, primarily the weakening of the British Pound and Euro relative to the United States Dollar.

During the three months ended June 30, 2022, we served 24,058 unique product developers and engineers, an increase of 3.4% over the same period in 2021. Our growth in product developers and engineers served increased at a rate consistent with our revenue growth.

Revenue by product line and the related changes for the three months ended June 30, 2022 and 2021 were as follows:

	,	Three Months Ende	ed June 30,				
	202	22	202	21	Change		
		% of Total		% of Total			
(dollars in thousands)	\$	Revenue	\$	Revenue	\$	%	
Revenue							
Injection Molding	\$ 53,355	42.0% \$	58,168	47.3% \$	(4,813)	(8.3)%	
CNC Machining	48,222	38.0	41,592	33.8	6,630	15.9	
3D Printing	19,963	15.7	18,170	14.8	1,793	9.9	
Sheet Metal	5,160	4.1	4,717	3.8	443	9.4	
Other Revenue	202	0.2	401	0.3	(199)	(49.6)	
Total revenue	\$ 126,902	100.0% \$	123,048	100.0% \$	3,854	3.1%	

By product line, our revenue increase was driven by a 15.9% increase in CNC Machining revenue, a 9.9% increase in 3D Printing revenue, and a 9.4% increase in Sheet Metal revenue, which was partially offset by an 8.3% decrease in Injection Molding revenue, and a 49.6% decrease in Other Revenue, in each case for the three months ended June 30, 2022 compared to the same period in 2021.

Cost of Revenue, Gross Profit and Gross Margin

Cost of Revenue. Cost of revenue increased \$3.1 million, or 4.6%, for the three months ended June 30, 2022 compared to the same period in 2021, which was greater than the rate of revenue increase of 3.1% for the three months ended June 30, 2022 compared to the same period in 2021. Cost of revenue increased \$2.6 million in our digital manufacturing business, which was driven by increased volumes and labor shortages resulting in wage inflation, driving personnel and related cost increases of \$0.7 million, an increase in raw material and product costs of \$1.8 million driven by materials cost inflation and higher logistics costs, and an increase in equipment and facility related costs of \$0.1 million. Hubs provided a \$0.5 million increase in cost of revenue for the three months ended June 30, 2022 when compared to the same period in 2021.

Gross Profit and Gross Margin. Gross profit increased from \$56.6 million in the three months ended June 30, 2021 to \$57.4 million in the three months ended June 30, 2022. Gross margin decreased from 46.0% in the three months ended June 30, 2021 to 45.2% in the three months ended June 30, 2022, primarily due to labor and materials cost inflation as described above and the mix of revenue.

Operating Expenses, Other Income (Loss), net and Provision for Income Taxes

Marketing and Sales. Marketing and sales expenses remained consistent during the three months ended June 30, 2022 compared to the same period in 2021. Personnel and related cost decreases in our digital manufacturing business of \$0.5 million and marketing program cost decreases in our digital manufacturing business of \$0.1 million were offset by increases in Hubs' marketing and sales expense of \$0.6 million during the three months ended June 30, 2022 when compared to the same period in 2021.

Research and Development. Our research and development expenses decreased \$1.6 million, or 14.6%, during the three months ended June 30, 2022 compared to the same period in 2021 primarily due to personnel and related cost decreases of \$1.6 million driven by personnel and contractor resources dedicated to the launch of our Protolabs 2.0 system in the first quarter of 2021.

General and Administrative. Our general and administrative expenses increased \$0.3 million, or 2.1%, during the three months ended June 30, 2022 compared to the same period in 2021 primarily due to an increase in personnel and related costs of \$0.2 million and an increase of professional services of \$0.1 million.

Closure of Japan business. Our decision to close our Japan business resulted in \$5.2 million in operating expenses during the three months ended June 30, 2022. Operating expenses included \$2.2 million of employee severance, \$1.2 million related to the write-down of fixed assets, \$0.9 million of facility-related charges, \$0.6 million in goodwill impairment charges and \$0.3 million in other closure related charges. We had no expenses related to the closure of our Japan business in 2021.

Changes in fair value of contingent consideration. We had no contingent consideration liabilities recorded during 2022. The change in fair value of contingent consideration associated with the acquisition of Hubs was \$7.8 million during the three months ended June 30, 2021.

Other income (loss), net. We recognized no other income, net for the three months ended June 30, 2022, a decrease of \$0.1 million compared to other income, net of \$0.1 million for the three months ended June 30, 2021. Other income, net for the three months ended June 30, 2022 primarily consisted of a \$0.3 million loss on foreign currency, which was offset by interest income on investments and other income. Other income, net for the three months ended June 30, 2021 primarily consisted of a \$0.1 million gain on foreign currency and interest income on investments.

Provision for Income Taxes. Our effective tax rate of 50.8% for the three months ended June 30, 2022 increased 30.3% compared to 20.5% for the same period in 2021. The increase in the effective tax rate is primarily due to a decrease in tax benefits from the vesting of restricted stock and the exercise of stock options, as well as an increase in losses in jurisdictions, primarily Japan, that are not eligible for tax benefits due to valuation allowances. Our income tax provision of \$2.6 million for the three months ended June 30, 2022 decreased \$0.7 million compared to our income tax provision of \$3.3 million for the three months ended June 30, 2021.

Comparison of Six Months Ended June 30, 2022 and 2021

Revenue

Revenue by reportable segment and the related changes for the six months ended June 30, 2022 and 2021 were as follows:

		Six Months Ended	l June 30,				
	202	22	202	21	Change		
		% of Total		% of Total			
(dollars in thousands)	\$	Revenue	\$	Revenue	\$	%	
Revenue							
United States	\$ 196,151	78.1% \$	186,397	77.9% \$	9,754	5.2%	
Europe	47,977	19.1	46,104	19.3	1,873	4.1	
Japan	6,942	2.8	6,673	2.8	269	4.0	
Total revenue	\$ 251,070	100.0% \$	239,174	100.0% \$	11,896	5.0%	

Our revenue increased \$11.9 million, or 5.0%, for the six months ended June 30, 2022 compared to the same period in 2021. By reportable segment, revenue in the United States increased \$9.8 million, or 5.2%, for the six months ended June 30, 2022 compared to the same period in 2021. Revenue in Europe increased \$1.9 million, or 4.1%, and revenue in Japan increased \$0.3 million, or 4.0%, in each case for the six months ended June 30, 2022 compared to the same period in 2021. Our acquisition of Hubs provided revenue of \$10.6 million and \$7.8 million in the United States and \$10.9 million and \$6.9 million in Europe for each of the six months ended June 30, 2022 and 2021, respectively. Hubs revenue in 2021 represents the period from January 22, 2021, the date of acquisition, through June 30, 2021. International revenue was negatively impacted by \$4.3 million during the six months ended June 30, 2022 compared to the same period in 2021 as a result of foreign currency movements, primarily the weakening of the British Pound and Euro relative to the United States Dollar.

During the six months ended June 30, 2022, we served 36,878 unique product developers and engineers, an increase of 5.2% over the same period in 2021. Our growth in product developers and engineers served increased at a rate consistent with our revenue growth.

Revenue by product line and the related changes for the six months ended June 30, 2022 and 2021 were as follows:

		Six Months Ended	l June 30,				
	 202	22	202	21	Change		
		% of Total		% of Total			
(dollars in thousands)	\$	Revenue	\$	Revenue	\$	%	
Revenue							
Injection Molding	\$ 106,753	42.5% \$	114,527	47.9% \$	(7,774)	(6.8)%	
CNC Machining	94,320	37.6	78,295	32.7	16,025	20.5	
3D Printing	39,635	15.8	35,405	14.8	4,230	11.9	
Sheet Metal	9,847	3.9	9,936	4.2	(89)	(0.9)	
Other Revenue	515	0.2	1,011	0.4	(496)	(49.1)	
Total revenue	\$ 251,070	100.0% \$	239,174	100.0% \$	11,896	5.0%	

By product line, our revenue increase was driven by a 20.5% increase in CNC Machining revenue and an 11.9% increase in 3D Printing revenue, which was partially offset by a 6.8% decrease in Injection Molding revenue, a 0.9% decrease in Sheet Metal revenue and a 49.1% decrease in Other Revenue, in each case for the six months ended June 30, 2022 compared to the same period in 2021.

Cost of Revenue, Gross Profit and Gross Margin

Cost of Revenue. Cost of revenue increased \$10.6 million, or 8.4%, for the six months ended June 30, 2022 compared to the same period in 2021, which was greater than the rate of revenue increase of 5.0% for the six months ended June 30, 2022 compared to the same period in 2021. Cost of revenue increased \$7.5 million in our digital manufacturing business, which was driven by increased volumes and labor shortages resulting in wage inflation driving personnel and related cost increases of \$3.2 million, an increase in raw material and product costs of \$3.9 million driven by materials cost inflation and higher logistics costs, and an increase in equipment and facility related costs of \$0.4 million. Our acquisition of Hubs provided a \$3.1 million increase in cost of revenue for the six months ended June 30, 2022 when compared to the same period in 2021.

Gross Profit and Gross Margin. Gross profit increased from \$112.0 million in the six months ended June 30, 2021 to \$113.2 million in the six months ended June 30, 2022. Gross margin decreased from 46.8% in the six months ended June 30, 2021 to 45.1% in the six months ended June 30, 2022, primarily due to labor and materials cost inflation as described above and the mix of revenue.

Operating Expenses, Other Income (Loss), net and Provision for Income Taxes

Marketing and Sales. Marketing and sales expenses increased \$1.1 million, or 2.8%, during the six months ended June 30, 2022 compared to the same period in 2021. Hubs provided a \$1.2 million increase in marketing and sales expenses and our digital manufacturing business provided marketing program cost increases of \$0.2 million during the six months ended June 30, 2022 when compared to the same period in 2021, which was partially offset by a decrease in our digital manufacturing business personnel and related costs of \$0.3 million.

Research and Development. Our research and development expenses decreased \$3.2 million, or 13.9%, during the six months ended June 30, 2022 compared to the same period in 2021 primarily due to personnel and related cost decreases of \$3.8 million driven by personnel and contractor resources dedicated to the launch and support of our Protolabs 2.0 system in the first quarter of 2021. The decrease was partially offset by a \$0.6 million increase in Hubs' research and development expenses during the six months ended June 30, 2022 when compared to the same period in 2021.

General and Administrative. Our general and administrative expenses decreased \$2.3 million, or 6.4%, during the six months ended June 30, 2022 compared to the same period in 2021 primarily due to a decrease of \$2.3 million in professional service costs primarily driven by increased transaction costs in 2021 related to our acquisition of Hubs and a decrease of \$1.3 million in stock-based compensation expense primarily driven by increased stock-based compensation expense in 2021 related to the retirement of our CEO. In addition, our acquisition of Hubs provided an increase of \$1.3 million in general and administrative expense during the six months ended June 30, 2022 when compared to the same period in 2021.

Closure of Japan business. Our decision to close our Japan business resulted in \$5.2 million in operating expenses during the six months ended June 30, 2022. Operating expenses included \$2.2 million of employee severance, \$1.2 million related to the write-down of fixed assets, \$0.9 million of facility-related charges, \$0.6 million in goodwill impairment charges and \$0.3 million in other closure related charges. We had no expenses related to the closure of our Japan business in 2021.

Changes in fair value of contingent consideration. We had no contingent consideration liabilities recorded during 2022. The change in fair value of contingent consideration associated with the acquisition of Hubs was \$7.8 million during the six months ended June 30, 2021.

Other Loss, net. We recognized other loss, net of \$0.3 million for the six months ended June 30, 2022, a decrease of \$0.1 million compared to other loss, net of \$0.2 million for the six months ended June 30, 2021. Other loss, net for the six months ended June 30, 2022 primarily consisted of a \$0.4 million loss on foreign currency, which was partially offset by \$0.1 million in interest income on investments and other income. Other loss, net for the six months ended June 30, 2021 primarily consisted of a \$0.5 million loss on foreign currency, which was partially offset by \$0.2 million in interest income on investments and \$0.1 million in other income.

Provision for Income Taxes. Our effective tax rate of 40.2% for the six months ended June 30, 2022 increased 22.6% compared to 17.6% for the same period in 2021. The increase in the effective tax rate is primarily due to a decrease in tax benefits from the vesting of restricted stock and the exercise of stock options, as well as an increase in losses in jurisdictions, primarily Japan, that are not eligible for tax benefits due to valuation allowances. Our income tax provision of \$5.1 million for the six months ended June 30, 2022 increased \$1.5 million compared to our income tax provision of \$3.6 million for the six months ended June 30, 2021.

Liquidity and Capital Resources

Cash Flows

The following table summarizes our cash flows during the six months ended June 30, 2022 and 2021:

	Six Months Ended June 30,							
(dollars in thousands)	 2022		2021					
Net cash provided by operating activities	\$ 31,040	\$	20,729					
Net cash used in investing activities	(36,516)		(105,082)					
Net cash used in financing activities	(4,821)		(1,856)					
Effect of exchange rates on cash and cash equivalents	(966)		515					
Net decrease in cash and cash equivalents	\$ (11,263)	\$	(85,694)					

Sources of Liquidity

Historically, we have primarily financed our operations and capital expenditures through cash flow from operations. We had cash and cash equivalents of \$54.7 million as of June 30, 2022, a decrease of \$11.3 million from December 31, 2021. The decrease in our cash was primarily due to cash used in investing activity for purchases of marketable securities, net, of \$30.5 million, purchases of property, equipment and other capital assets of \$6.0 million, and cash used in financing activities of \$4.8 million, which were partially offset by cash generated through operations of \$31.0 million.

Cash Flows from Operating Activities

Cash flows from operating activities were \$31.0 million during the six months ended June 30, 2022 and primarily consisted of net income of \$7.7 million, adjusted for certain non-cash items, including depreciation and amortization of \$20.3 million, stock-based compensation expense of \$8.4 million, and impairments related to the closure of our Japan business of \$1.8 million, which were partially offset by deferred taxes of \$5.7 million and changes in operating assets and liabilities and other items totaling \$1.5 million. Cash flows from operating activities were \$20.7 million during the six months ended June 30, 2021 and primarily consisted of net income of \$16.6 million, adjusted for certain non-cash items, including depreciation and amortization of \$20.1 million and stock-based compensation expense of \$10.6 million, which were partially offset by a decrease in the fair value of contingent consideration of \$7.8 million and changes in operating assets and liabilities and other items totaling \$18.8 million.

Cash flows from operating activities increased \$10.3 million during the six months ended June 30, 2022 compared to the same period in 2021, primarily due to changes in operating assets and liabilities totaling \$17.7 million, changes in fair value of contingent consideration of \$7.8 million, costs related to the closure of our Japan business of \$1.8 million, and increases of depreciation and amortization of \$0.2 million, which were partially offset by decreases in net income of \$9.0 million, stock-based compensation of \$2.1 million and deferred taxes of \$6.1 million.

Cash Flows from Investing Activities

Cash used in investing activities was \$36.5 million during the six months ended June 30, 2022, consisting of \$30.5 million for net purchases of marketable securities and \$6.0 million for the purchases of property, equipment and other capital assets.

Cash used in investing activities was \$105.1 million during the six months ended June 30, 2021, consisting of \$127.4 million in cash used for acquisitions, net of cash acquired and \$23.9 million for the purchases of property, equipment and other capital assets, which were partially offset by \$46.2 million for net proceeds from investments in marketable securities.

Cash Flows from Financing Activities

Cash used in financing activities was \$4.8 million during the six months ended June 30, 2022, consisting of \$5.2 million in repurchases of common stock, \$1.6 million in purchases of shares withheld for tax obligations associated with equity transactions and \$0.3 million for repayments of finance lease obligations, which were partially offset by \$2.3 million in proceeds from exercises of stock options.

Cash used in financing activities was \$1.9 million during the six months ended June 30, 2021, consisting of \$4.2 million in purchases of shares withheld for tax obligations associated with equity transactions, \$1.2 million in repurchases of common stock and \$0.3 million for repayments of finance lease obligations, which were partially offset by \$3.8 million in proceeds from the exercise of stock options.

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, 2021. There were no material changes to our critical accounting policies during the six months ended June 30, 2022.

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 \$0.3 million and foreign currency gains of \$0.1 million during the three months ended June 30, 2022 and 2021, respectively. We recognized foreign currency losses of \$0.4 million and \$0.5 million during the six months ended June 30, 2022 and 2021, respectively. The changes in foreign exchange rates had a negative impact on consolidated revenue of \$2.7 million for the three months ended June 30, 2022 and \$4.3 million for the six months ended June 30, 2022 as compared to the same periods in 2021.

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

Part I, Item 1A. "Risk Factors" in our Annual Report on Form 10-K for the year ended December 31, 2021 includes a discussion of our risk factors. There have been no material changes from the risk factors described in our Form 10-K.

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

On February 9, 2017, our board of directors 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. On May 16, 2019, we announced that our board of directors approved a \$50 million increase in its authorized stock repurchase program and extended the term of the program through December 31, 2023, which increased the stock repurchase program to \$100 million. On December 8, 2021, our board of directors approved a \$50 million increase in its authorized stock repurchase program, which increased the total expenditure authorized to \$150 million. We have \$56.7 million remaining under this authorization. The timing and amount of any share repurchases will be determined by our management based on market conditions and other factors.

During the three months ended June 30, 2022, we repurchased 113,266 shares of our common stock at a total purchase price of \$5.2 million under this program. Common stock repurchase activity through June 30, 2022 was as follows:

	Total			
	Number of	Average	Total Number of Shares	Maximum Dollar Value of Shares that
	Shares	Price Paid	Purchased as Part of Publicly	May Yet Be Purchased Under the
Period	Purchased	per Share	Announced Plans or Programs	Plans or Programs (in thousands) (1)
April 1, 2022 through April 30, 2022	-	\$-	-	\$61,905
May 1, 2022 through May 31, 2022	79,236	\$45.22	79,236	\$58,322
June 1, 2022 through June 30, 2022	34,030	\$48.58	34,030	\$56,669
	113,266	\$46.23	113,266	\$56,669

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	Description of Exhibit
Number	
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*
99.1(4)	Form of Severance Agreement
101.INS	Inline XBRL Instance Document (the Instance Document does not appear in the Interactive Data File because its XBRL tags are embedded
	within the Inline XBRL document)
101.SCH	Inline XBRL Taxonomy Extension Schema Document
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase Document
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase Document
104	Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101)

Previously filed as Exhibit 3.2 to the Company's Registration Statement on Form S-1/A, filed with the Commission on February 13, 2012, and incorporated by reference herein.

- Previously filed as Exhibit 3.1 to the Company's Form 8-K, filed with the Commission on May 21, 2015 and incorporated by reference herein.
- Previously filed as Exhibit 3.1 to the Company's Form 8-K, filed with the Commission on November 8, 2016 and incorporated by reference herein.
- Previously filed as Exhibit 99.2 to the Company's Form 8-K, filed with the Commission on June 6, 2022 and incorporated by reference herein.
- * Filed herewith.

Date: August 5, 2022

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: August 5, 2022 /s/ Robert Bodor

Robert Bodor

President and Chief Executive Officer

(Principal Executive Officer)

/s/ Daniel Schumacher

Daniel Schumacher Chief Financial Officer (Principal Financial 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, Robert Bodor, 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;
- 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: August 5, 2022 By: /s/ Robert Bodor

Robert Bodor
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, Daniel Schumacher, 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;
- 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: August 5, 2022 By: /s/ Daniel Schumacher

Daniel Schumacher 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, Robert Bodor, 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 June 30, 2022 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: August 5, 2022

By: /s/ Robert Bodor

Name: Robert Bodor

Title: President and Chief Executive Officer

I, Daniel Schumacher, 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 June 30, 2022 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: August 5, 2022

By: /s/ Daniel Schumacher

Name: Daniel Schumacher Title: Chief Financial Officer