

TERADYNE, INC  
Form 10-Q  
May 10, 2013  
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**UNITED STATES**  
**SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

**FORM 10-Q**

(Mark One)

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

For the quarterly period ended March 31, 2013

OR

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

For the transition period from      to

Commission File No. 001-06462

# TERADYNE, INC.

(Exact name of registrant as specified in its charter)

**Massachusetts**  
(State or Other Jurisdiction of

**04-2272148**  
(I.R.S. Employer

Incorporation or Organization)

Identification No.)

**600 Riverpark Drive, North Reading,**

**Massachusetts**  
(Address of Principal Executive Offices)

**01864**  
(Zip Code)

**978-370-2700**

(Registrant's Telephone Number, Including Area Code)

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

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files) Yes  No

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

Large accelerated filer  Accelerated filer   
Non-accelerated filer  Smaller reporting company

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

The number of shares outstanding of the registrant's only class of Common Stock as of May 3, 2013 was 190,641,051 shares.

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**Table of Contents****PART I****Item 1: Financial Statements****TERADYNE, INC.****CONDENSED CONSOLIDATED BALANCE SHEETS****(Unaudited)**

	<b>March 31, 2013</b>	<b>December 31, 2012</b>
	<b>(in thousands,</b>	
	<b>except per share information)</b>	
<b>ASSETS</b>		
Current assets:		
Cash and cash equivalents	\$ 305,219	\$ 338,920
Marketable securities	404,781	431,516
Accounts receivable, less allowance for doubtful accounts of \$4,180 and \$4,118 at March 31, 2013 and December 31, 2012, respectively	166,614	153,423
Inventories:		
Parts	85,502	89,598
Assemblies in process	29,208	32,303
Finished goods	34,348	17,509
	149,058	139,410
Deferred tax assets	83,869	77,305
Prepayments and other current assets	97,909	95,487
Total current assets	1,207,450	1,236,061
Net property, plant and equipment	264,043	265,782
Marketable securities	246,253	235,872
Other assets	18,583	20,209
Retirement plans assets	3,106	3,282
Intangible assets, net	300,831	318,867
Goodwill	349,272	349,272
Total assets	\$ 2,389,538	\$ 2,429,345
<b>LIABILITIES</b>		
Current liabilities:		
Accounts payable	\$ 59,100	\$ 58,324
Accrued employees' compensation and withholdings	54,555	86,264
Deferred revenue and customer advances	71,816	81,357
Other accrued liabilities	51,918	57,249
Accrued income taxes	3,221	12,306
Current debt	176,835	2,328
Total current liabilities	417,445	297,828
Long-term deferred revenue and customer advances	15,622	16,227
Retirement plans liabilities	94,592	94,373
Deferred tax liabilities	50,201	50,201
Long-term other accrued liabilities	20,413	21,302
Long-term debt		171,059

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Total liabilities	598,273	650,990
Commitments and contingencies (Note N)		
<b>SHAREHOLDERS' EQUITY</b>		
Common stock, \$0.125 par value, 1,000,000 shares authorized, 190,422 shares and 187,908 shares issued and outstanding at March 31, 2013 and December 31, 2012, respectively	23,803	23,488
Additional paid-in capital	1,353,789	1,347,762
Accumulated other comprehensive income	5,799	5,820
Retained earnings	407,874	401,285
Total shareholders' equity	1,791,265	1,778,355
Total liabilities and shareholders' equity	\$ 2,389,538	\$ 2,429,345

The accompanying notes, together with the Notes to Consolidated Financial Statements included in Teradyne's Annual Report on Form 10-K for the year ended December 31, 2012, are an integral part of the condensed consolidated financial statements.

**Table of Contents****TERADYNE, INC.****CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS****(Unaudited)**

	<b>For the Three Months Ended</b>	
	<b>March 31, 2013</b>	<b>April 1, 2012</b>
	<b>(in thousands except per share amounts)</b>	
Net revenues:		
Products	\$ 214,300	\$ 330,891
Services	66,067	65,777
Total net revenues	280,367	396,668
Cost of revenues:		
Cost of products	96,793	174,001
Cost of services	30,157	31,741
Total cost of revenues	126,950	205,742
Gross profit	153,417	190,926
Operating expenses:		
Engineering and development	62,751	61,279
Selling and administrative	67,890	66,633
Acquired intangible assets amortization	18,036	18,429
Restructuring and other	332	(1,825)
Total operating expenses	149,009	144,516
Income from operations	4,408	46,410
Interest income	1,072	893
Interest expense and other	(6,906)	(6,059)
(Loss) income before income taxes	(1,426)	41,244
Income tax (benefit) provision	(8,015)	7,680
Net income	\$ 6,589	\$ 33,564
Net income per common share:		
Basic	\$ 0.03	\$ 0.18
Diluted	\$ 0.03	\$ 0.15
Weighted average common share basic	189,686	185,838
Weighted average common share diluted	234,757	231,153

The accompanying notes, together with the Notes to Consolidated Financial Statements included in Teradyne's

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Annual Report on Form 10-K for the year ended December 31, 2012, are an integral part of the condensed consolidated financial statements.

**Table of Contents****TERADYNE, INC.****CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME****(Unaudited)**

	<b>For the Three Months Ended</b>	
	<b>March 31, 2013</b>	<b>April 1, 2012</b>
	<b>(in thousands)</b>	
Net income	\$ 6,589	\$ 33,564
Other comprehensive (loss) income:		
Available-for-sale marketable securities:		
Net unrealized gains on marketable securities arising during period	363	744
Less: Reclassification adjustment for net gains included in net income	(275)	(466)
Net change	88	278
Defined benefit pension and postretirement plans:		
Amortization of prior service benefit included in net periodic pension and postretirement cost	(109)	(92)
Other comprehensive (loss) income	(21)	186
Comprehensive income	\$ 6,568	\$ 33,750

The accompanying notes, together with the Notes to Consolidated Financial Statements included in Teradyne's

Annual Report on Form 10-K for the year ended December 31, 2012, are an integral part of the condensed

consolidated financial statements.



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	<b>For the Three Months Ended</b>	
	<b>March 31, 2013</b>	<b>April 1, 2012</b>
	<b>(in thousands)</b>	
<b>Cash flows from operating activities:</b>		
Net income	\$ 6,589	\$ 33,564
<b>Adjustments to reconcile net income to net cash (used for) provided by operating activities:</b>		
Depreciation	14,115	12,288
Amortization	21,884	21,815
Stock-based compensation	9,023	10,766
Provision for excess and obsolete inventory	3,800	1,574
Deferred taxes	(6,183)	7,699
Non cash charge for the sale of inventories revalued at the date of acquisition		4,871
Contingent consideration adjustment		(1,825)
Other	131	(487)
<b>Changes in operating assets and liabilities:</b>		
Accounts receivable	(13,191)	(92,217)
Inventories	(4,040)	23,636
Prepayments and other assets	(1,070)	1,885
Accounts payable and other accrued expenses	(47,258)	(9,259)
Deferred revenue and customer advances	(10,146)	(1,704)
Retirement plans contributions	(1,063)	(1,061)
Accrued income taxes	(9,085)	(376)
Net cash (used for) provided by operating activities	(36,494)	11,169
<b>Cash flows from investing activities:</b>		
Purchases of property, plant and equipment	(22,547)	(27,074)
Purchases of marketable securities	(124,514)	(80,095)
Proceeds from maturities of marketable securities	119,552	46,549
Proceeds from sales of marketable securities	21,694	6,256
Net cash used for investing activities	(5,815)	(54,364)
<b>Cash flows from financing activities:</b>		
Issuance of common stock under employee stock option and stock purchase plans	8,921	9,925
Payments of long-term debt		(1,246)
Payments of contingent consideration	(313)	(5,824)
Net cash provided by financing activities	8,608	2,855
Decrease in cash and cash equivalents	(33,701)	(40,340)
Cash and cash equivalents at beginning of period	338,920	573,736
Cash and cash equivalents at end of period	\$ 305,219	\$ 533,396

The accompanying notes, together with the Notes to Consolidated Financial Statements included in Teradyne's

Annual Report on Form 10-K for the year ended December 31, 2012, are an integral part of the condensed

consolidated financial statements.



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**TERADYNE, INC.**

**NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS**

**(Unaudited)**

**A. The Company**

Teradyne, Inc. (the Company or Teradyne) is a leading global supplier of automatic test equipment. Teradyne's automatic test equipment products and services include:

semiconductor test ( Semiconductor Test ) systems;

wireless test ( Wireless Test ) systems; and

military/aerospace ( Mil/Aero ) test instrumentation and systems, storage test ( Storage Test ) systems, and circuit-board test and inspection ( Commercial Board Test ) systems (collectively these products represent Systems Test ).

**B. Accounting Policies**

*Basis of Presentation*

The condensed consolidated interim financial statements include the accounts of Teradyne and its wholly-owned subsidiaries. All significant intercompany balances and transactions have been eliminated. These interim financial statements are unaudited and reflect all normal recurring adjustments that are, in the opinion of management, necessary for the fair presentation of such interim financial statements. Certain prior year amounts were reclassified to conform to the current year presentation. The December 31, 2012 condensed consolidated balance sheet data was derived from audited financial statements, but does not include all disclosures required by accounting principles generally accepted in the United States of America.

The accompanying financial information should be read in conjunction with the consolidated financial statements and notes thereto contained in Teradyne's Annual Report on Form 10-K, filed with the U.S. Security and Exchange Commission ( SEC ) on March 1, 2013, for the year ended December 31, 2012.

*Preparation of Financial Statements and Use of Estimates*

The preparation of consolidated financial statements requires management to make estimates and judgments that affect the amounts reported in the financial statements. Actual results may differ significantly from these estimates.

**C. Recently Issued Accounting Pronouncements**

In December 2011, the FASB issued ASU No. 2011-11, *Disclosures about Offsetting Assets and Liabilities*. This ASU is intended to enhance the understanding of the effects of netting arrangements on an entity's financial statements, including financial instruments and derivative instruments that are either offset or subject to a master netting arrangement. The scope of this ASU includes derivatives, sale and repurchase agreements, reverse sale and repurchase agreements, and securities borrowing and lending arrangements. The provisions of this ASU are effective for interim and annual periods beginning on or after January 1, 2013. Teradyne adopted this ASU effective January 1, 2013. See Note D Financial Instruments and Derivatives.

In February 2013, the Financial Accounting Standards Board (FASB) issued ASU 2013-02, *Comprehensive Income (Topic 220): Reporting of Amounts Reclassified out of Accumulated Other Comprehensive Income* amending the disclosure requirements regarding the reporting of amounts reclassified out of accumulated other comprehensive income. The amendment does not change the current requirement for reporting net income or other comprehensive income, but requires additional disclosures about significant amounts reclassified out of accumulated other

comprehensive income including the effect of the reclassification

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on the related net income line items. The provisions of this ASU are effective for interim and annual periods beginning on or after January 1, 2013. Teradyne adopted this amendment effective January 1, 2013. See Note I Accumulated Other Comprehensive Income.

### **D. Financial Instruments and Derivatives**

#### **Financial Instruments**

Teradyne uses the market and income approach to value its financial instruments and there was no change in valuation techniques used by Teradyne during the three months ended March 31, 2013 and April 1, 2012. As defined in ASC 820-10, *Fair Value Measurements and Disclosures*, fair value is the price that would be received from the sale of an asset or paid to transfer a liability in an orderly transaction between market participants. ASC 820-10 requires that assets and liabilities are carried at fair value and are classified in one of the following three categories:

Level 1: Quoted prices in active markets for identical assets as of the reporting date.

Level 2: Inputs other than Level 1, that are observable either directly or indirectly as of the reporting date. For example, a common approach for valuing fixed income securities is the use of matrix pricing. Matrix pricing is a mathematical technique used to value securities by relying on the securities' relationship to other benchmark quoted prices.

Level 3: Unobservable inputs that are not supported by market data. Unobservable inputs are developed based on the best information available, which might include Teradyne's own data.

Most of Teradyne's fixed income securities are classified as Level 2, with the exception of U.S. Treasury securities and investments in equity and debt mutual funds, which are classified as Level 1, and contingent consideration, which is classified as Level 3. The majority of Level 2 securities are priced by third party pricing vendors. These pricing vendors utilize the most recent observable market information in pricing these securities or, if specific prices are not available, use other observable inputs like market transactions involving identical or comparable securities.

There were no realized losses recorded in the three months ended March 31, 2013 and April 1, 2012. Realized gains recorded in the three months ended March 31, 2013 and April 1, 2012 were \$0.3 million and \$0.3 million, respectively. Realized gains are included in interest income.

During the three months ended March 31, 2013 and April 1, 2012, there were no transfers in or out of Level 1, Level 2 or Level 3 financial instruments.

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The following table sets forth by fair value hierarchy Teradyne's financial assets and liabilities that were measured at fair value on a recurring basis as of March 31, 2013 and December 31, 2012.

	March 31, 2013				Total
	Quoted Prices in Active Markets for Identical Instruments (Level 1)	Significant		(in thousands)	
		Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)		
<b>Assets</b>					
Cash	\$ 118,176	\$	\$		\$ 118,176
Cash equivalents	179,798	7,245			187,043
Available-for-sale securities:					
U.S. Treasury securities	315,107				315,107
U.S. government agency securities		211,341			211,341
Commercial paper		65,349			65,349
Corporate debt securities		47,704			47,704
Equity and debt mutual funds	11,189				11,189
Certificates of deposit and time deposits		259			259
Non-U.S. government securities		85			85
Total	\$ 624,270	\$ 331,983	\$		\$ 956,253
<b>Liabilities</b>					
Contingent consideration	\$	\$	\$ 75		\$ 75
Derivatives		475			475
Total	\$	\$ 475	\$ 75		\$ 550

Reported as follows:

	(Level 1)	(Level 2)	(Level 3)	Total
	(in thousands)			
<b>Assets</b>				
Cash and cash equivalents	\$ 297,974	\$ 7,245	\$	\$ 305,219
Marketable securities	232,452	172,329		404,781
Long-term marketable securities	93,844	152,409		246,253
	\$ 624,270	\$ 331,983	\$	\$ 956,253
<b>Liabilities</b>				
Other accrued liabilities	\$	\$ 475	\$ 75	\$ 550
	\$	\$ 475	\$ 75	\$ 550



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	December 31, 2012			
	Quoted Prices in Active Markets for Identical Instruments (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	Total
	(in thousands)			
<b>Assets</b>				
Cash	\$ 139,354	\$	\$	\$ 139,354
Cash equivalents	183,039	16,527		199,566
Available-for-sale securities:				
U.S. Treasury securities	312,116			312,116
U.S. government agency securities		217,655		217,655
Commercial paper		70,434		70,434
Corporate debt securities		55,755		55,755
Equity and debt mutual funds	9,717			9,717
Certificates of deposit and time deposits		1,627		1,627
Non-U.S. government securities		84		84
<b>Total</b>	<b>644,226</b>	<b>362,082</b>		<b>1,006,308</b>
<b>Derivatives</b>		<b>121</b>		<b>121</b>
<b>Total</b>	<b>\$ 644,226</b>	<b>\$ 362,203</b>	<b>\$</b>	<b>\$ 1,006,429</b>
<b>Liabilities</b>				
Contingent consideration	\$	\$	\$ 388	\$ 388
<b>Total</b>	<b>\$</b>	<b>\$</b>	<b>\$ 388</b>	<b>\$ 388</b>

Reported as follows:

	(Level 1)	(Level 2)	(Level 3)	Total
	(in thousands)			
<b>Assets</b>				
Cash and cash equivalents	\$ 322,393	\$ 16,527	\$	\$ 338,920
Marketable securities	239,192	192,324		431,516
Long-term marketable securities	82,641	153,231		235,872
Prepayments and other current assets		121		121
<b>Total</b>	<b>\$ 644,226</b>	<b>\$ 362,203</b>	<b>\$</b>	<b>\$ 1,006,429</b>
<b>Liabilities</b>				
Other accrued liabilities	\$	\$	\$ 388	\$ 388
<b>Total</b>	<b>\$</b>	<b>\$</b>	<b>\$ 388</b>	<b>\$ 388</b>



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Changes in the fair value of Level 3 contingent consideration for the three months ended March 31, 2013 were as follows:

	Contingent consideration (in thousands)
Balance at December 31, 2012	\$ 388
Payments	(313)
<b>Balance at March 31, 2013</b>	<b>\$ 75</b>

The carrying amounts and fair values of financial instruments at March 31, 2013 and December 31, 2012 were as follows:

	March 31, 2013		December 31, 2012	
	Carrying Value	Fair Value (in thousands)	Carrying Value	Fair Value
Cash and cash equivalents	\$ 305,219	\$ 305,219	\$ 338,920	\$ 338,920
Marketable securities	651,034	651,034	667,388	667,388
Convertible debt(1)	173,648	564,294	169,896	589,000
Japan loan	3,187	3,187	3,491	3,491

(1) The carrying value represents the bifurcated debt component only, while the fair value is based on quoted market prices for the convertible note which includes the equity conversion feature.

The fair values of cash and cash equivalents, accounts receivable, net and accounts payable approximate the carrying amount due to the short-term maturities of these instruments.

The following tables summarize the composition of available-for-sale marketable securities at March 31, 2013 and December 31, 2012:

	March 31, 2013				Fair Market Value of Investments with Unrealized Losses
	Available-for-Sale				
	Cost	Unrealized Gain	Unrealized (Loss) (in thousands)	Fair Market Value	
U.S. Treasury securities	\$ 314,902	\$ 231	\$ (26)	\$ 315,107	\$ 2,827
U.S. government agency securities	211,108	235	(2)	211,341	8,013
Commercial paper	65,341	13	(5)	65,349	15,484
Corporate debt securities	45,867	1,937	(100)	47,704	16,307
Equity and debt mutual funds	9,626	1,577	(14)	11,189	726
Certificates of deposit and time deposits	259			259	
Non-U.S. government securities	85			85	
	\$ 647,188	\$ 3,993	\$ (147)	\$ 651,034	\$ 43,357

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Reported as follows:

	Cost	Unrealized Gain	Unrealized (Loss) (in thousands)	Fair Market Value	Fair Market Value of Investments with Unrealized Losses
Marketable securities	\$ 404,576	\$ 212	\$ (7)	\$ 404,781	\$ 23,651
Long-term marketable securities	242,612	3,781	(140)	246,253	19,706
	\$ 647,188	\$ 3,993	\$ (147)	\$ 651,034	\$ 43,357

	December 31, 2012 Available-for-Sale				Fair Market Value of Investments with Unrealized Losses
	Cost	Unrealized Gain	Unrealized (Loss) (in thousands)	Fair Market Value	
U.S. Treasury securities	\$ 311,915	\$ 216	\$ (15)	\$ 312,116	\$ 1,018
U.S. government agency securities	217,396	262	(3)	\$ 217,655	9,018
Commercial paper	70,431	9	(6)	70,434	25,209
Corporate debt securities	53,405	2,414	(64)	55,755	23,255
Equity and debt mutual funds	8,767	961	(11)	9,717	600
Certificates of deposit and time deposits	1,627			1,627	
Non-U.S. government securities	84			84	
	\$ 663,625	\$ 3,862	\$ (99)	\$ 667,388	\$ 59,100

Reported as follows:

	Cost	Unrealized Gain	Unrealized (Loss) (in thousands)	Fair Market Value	Fair Market Value of Investments with Unrealized Losses
Marketable securities	\$ 431,324	\$ 203	\$ (11)	\$ 431,516	\$ 41,110
Long-term marketable securities	232,301	3,659	(88)	235,872	17,990
	\$ 663,625	\$ 3,862	\$ (99)	\$ 667,388	\$ 59,100

As of March 31, 2013, the fair market value of marketable securities with unrealized losses totaled \$43.4 million. Of this value, \$0.3 million had unrealized losses greater than one year and \$43.1 million had unrealized losses less than one year. As of December 31, 2012, the fair market value of marketable securities with unrealized losses totaled \$59.1 million. There were no unrealized losses greater than one year.

The contractual maturities of available-for-sale marketable securities at March 31, 2013 were as follows:

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	March 31, 2013	
	Cost	Fair Market Value
	(in thousands)	
Due within one year	\$ 404,576	\$ 404,781
Due after 1 year through 5 years	221,440	223,236
Due after 5 years through 10 years	2,684	2,895
Due after 10 years	18,488	20,122
<b>Total</b>	<b>\$ 647,188</b>	<b>\$ 651,034</b>

**Table of Contents****Derivatives**

Teradyne conducts business in a number of foreign countries, with certain transactions denominated in local currencies. The purpose of Teradyne's foreign currency management is to minimize the effect of exchange rate fluctuations on certain foreign currency denominated net monetary assets. Teradyne does not use derivative financial instruments for trading or speculative purposes.

To minimize the effect of exchange rate fluctuations associated with the remeasurement of monetary assets and liabilities denominated in foreign currencies, Teradyne enters into foreign currency forward contracts. The change in fair value of these derivatives is recorded directly in earnings, and is used to offset the change in fair value of the monetary assets and liabilities denominated in foreign currencies.

The notional amount of foreign exchange contracts hedging monetary assets and liabilities denominated in foreign currencies was \$69.0 million and \$64.1 million at March 31, 2013 and December 31, 2012, respectively.

The following table summarizes the fair value of derivative instruments at March 31, 2013 and December 31, 2012.

	Balance Sheet Location	March 31,	December 31,
		2013	2012
		(in thousands)	
Derivatives not designated as hedging instruments:			
Foreign exchange contracts	Prepayments and other current assets	\$	\$ 121
Foreign exchange contracts	Other accrued liabilities	475	
		\$ 475	\$ 121

Teradyne had no offsetting foreign exchange contracts at March 31, 2013 and December 31, 2012.

The following table summarizes the effect of derivative instruments recognized in the statement of operations during the three months ended March 31, 2013 and April 1, 2012. The table does not reflect the corresponding gains (losses) from the remeasurement of the monetary assets and liabilities denominated in foreign currencies.

	Location of Gains Recognized in Statement of Operations	For the Three Months Ended	
		March 31, 2013	April 1, 2012
		(in thousands)	
Derivatives not designated as hedging instruments:			
Foreign exchange contracts	Interest expense and other	\$ 2,248	\$ 2,880
		\$ 2,248	\$ 2,880

See Note E Debt regarding derivatives related to convertible senior notes.

**E. Debt****Loan Agreement**

On March 31, 2009, Teradyne K.K., Teradyne's wholly-owned subsidiary in Japan, entered into a loan agreement with a local bank in Japan to borrow approximately \$10.0 million (the loan is denominated in Japanese Yen). The loan has a term of 5 years and a fixed interest rate of 0.8%. Approximately \$6.0 million of the loan is collateralized by a real estate mortgage on Teradyne K.K.'s building and land in Kumamoto, Japan



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and approximately \$4.0 million is unsecured. Teradyne, Inc. has guaranteed payment of the loan obligation. The loan is amortized over the term of the loan with semiannual principal payments of approximately \$1.0 million payable on September 30 and March 30 each year. At March 31, 2013, the outstanding loan principal of approximately \$3.2 million is included in current debt.

### **Convertible Senior Notes**

In April 2009, Teradyne issued 4.50% convertible senior notes (the "Notes") at an aggregate principal amount of \$190 million. The Notes will mature on March 15, 2014, unless earlier repurchased by Teradyne or converted. The Notes are senior unsecured obligations and rank equally with all of Teradyne's existing and future senior debt and senior to any of Teradyne's subordinated debt.

The Notes may be converted, at the option of the holder, under certain circumstances and during certain periods, at an initial conversion rate of approximately 182.65 shares of Teradyne's common stock per \$1,000 principal amount of Notes, which is equivalent to an initial conversion price of approximately \$5.48, a 25% conversion premium based on the last reported sale price of \$4.38 per share of Teradyne's common stock on March 31, 2009. The conversion rate is subject to adjustment in certain circumstances including but not limited to Teradyne issuing a cash or stock dividend or effecting a stock split.

During the three months ended March 31, 2013, the following circumstance occurred that allows holders to convert their Notes at their option prior to December 15, 2013: the last reported sale price of Teradyne's common stock for 20 or more trading days in a period of 30 consecutive trading days ending on the last trading day of the immediately preceding calendar quarter exceeded 130% of the conversion price in effect on the last trading day of the immediately preceding calendar quarter. As of May 10, 2013, one holder exercised the option to convert two thousand dollars worth of Notes.

Concurrently with the offering of the Notes, Teradyne entered into a convertible note hedge transaction with a strike price equal to the initial conversion price of the Notes, or approximately \$5.48. The convertible note hedge allows Teradyne to receive shares of its common stock and/or cash related to the excess conversion value that it would pay to the holders of the Notes upon conversion. The convertible note hedges will cover, subject to customary antidilution adjustments, approximately 34,703,196 shares of Teradyne's common stock. Teradyne paid approximately \$64.6 million for the convertible note hedges.

On March 31, 2009, Teradyne entered into a warrant transaction with a strike price of approximately \$7.67 per share, which was 75% higher than the closing price of Teradyne's common stock. Teradyne received approximately \$43.0 million for the warrants.

The convertible note hedge and warrant transaction will generally have the effect of increasing the conversion price of the Notes to approximately \$7.67 per share of Teradyne's common stock, representing a 75% conversion premium based upon the closing price of Teradyne's common stock on March 31, 2009.

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The Notes are classified as current debt in the balance sheet at March 31, 2013. The tables below represent the components of Teradyne's convertible senior notes:

	March 31, 2013	December 31, 2012
	(in thousands)	
Debt principal	\$ 189,998	\$ 190,000
Unamortized debt discount	16,350	20,104
<b>Net carrying amount of the convertible debt</b>	<b>\$ 173,648</b>	<b>\$ 169,896</b>

	For the Three Months Ended	
	March 31, 2013	April 1, 2012
	(in thousands)	
Contractual interest expense	\$ 2,137	\$ 2,161
Amortization of the discount component and debt issue fees	3,957	3,479
<b>Total interest expense on the convertible debt</b>	<b>\$ 6,094</b>	<b>\$ 5,640</b>

As of March 31, 2013, the unamortized discount was \$16.4 million, which will be amortized over the next twelve months, and the carrying amount of the equity component was \$63.4 million. As of March 31, 2013, the conversion rate was equal to the initial conversion price of approximately \$5.48 per share and the if-converted value of the Notes was \$562.9 million.

**F. Deferred Revenue and Customer Advances**

Deferred revenue and customer advances consist of the following and are included in short- and long-term deferred revenue and customer advances.

	March 31, 2013	December 31, 2012
	(in thousands)	
Customer advances	\$ 29,951	\$ 39,613
Maintenance, training and extended warranty	50,021	51,198
Undelivered elements	7,466	6,773
<b>Total deferred revenue and customer advances</b>	<b>\$ 87,438</b>	<b>\$ 97,584</b>

**G. Product Warranty**

Teradyne generally provides a one-year warranty on its products commencing upon installation or shipment. A provision is recorded upon revenue recognition to cost of revenues for estimated warranty expense based on historical experience. Related costs are charged to the warranty accrual as incurred. The balance below is included in other accrued liabilities.

For the Three Months  
Ended

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	March 31, 2013	April 1, 2012
	(in thousands)	
Balance at beginning of period	\$ 9,786	\$ 8,153
Accruals for warranties issued during the period	1,423	3,776
Adjustments related to pre-existing warranties	(929)	(260)
Settlements made during the period	(3,205)	(2,947)
Balance at end of period	\$ 7,075	\$ 8,722



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When Teradyne receives revenue for extended warranties beyond one year, it is deferred and recognized on a straight-line basis over the contract period. Related costs are expensed as incurred. The balance below is included in deferred revenue and customer advances and long-term other accrued liabilities.

	<b>For the Three Months Ended</b>	
	<b>March 31, 2013</b>	<b>April 1, 2012</b>
	(in thousands)	
Balance at beginning of period	\$ 26,987	\$ 12,742
Deferral of new extended warranty revenue	3,471	2,347
Recognition of extended warranty deferred revenue	(1,859)	(2,162)
Balance at end of period	\$ 28,599	\$ 12,927

**H. Stock-Based Compensation**

Restricted stock unit awards granted to employees vest in equal installments over four years. A portion of restricted stock unit awards granted to executive officers is subject to time-based vesting and a portion is subject to performance-based vesting. The percentage level of performance satisfied for performance-based grants is assessed on or near the anniversary of the grant date and, in turn, that percentage level determines the number of performance-based restricted stock units available for vesting over the vesting period; portions of the performance-based grants not available for vesting will be forfeited. Stock options vest in equal installments over four years, and have a term of seven years from the date of grant.

During the three months ended March 31, 2013, Teradyne granted 1.8 million of restricted stock unit awards to employees at a weighted average grant date fair value of \$16.57 and 0.2 million of service-based stock options to executive officers at a weighted average grant date fair value of \$6.09.

During the three months ended April 1, 2012, Teradyne granted 1.5 million of restricted stock unit awards to employees at a weighted average grant date fair value of \$16.88 and 0.2 million of service-based stock options to executive officers at a weighted average grant date fair value of \$6.85.

The fair value of stock options was estimated using the Black-Scholes option-pricing model with the following assumptions:

	<b>For the Three Months Ended</b>	
	<b>March 31, 2013</b>	<b>April 1, 2012</b>
Expected life (years)	4.0	3.5
Interest rate	0.6%	0.4%
Volatility-historical	46.8%	56.0%
Dividend yield	0.0%	0.0%

Teradyne determined the stock options' expected life based upon historical exercise data for executive officers, the age of the executive officers and the terms of the stock option grant. Volatility was determined using historical volatility for a period equal to the expected life. The risk-free rate was determined using the U.S. Treasury yield curve in effect at the time of grant.

Effective January 1, 2013, the price paid by employees for Teradyne's common stock purchased through the employee stock purchase plan is equal to 85% of the stock price on the last business day of the purchase period.

During 2012, the price paid by employees for Teradyne's common stock purchased through the employee stock purchase plan was equal to 85% of the lower of the stock price on the first or last business day of the purchase period.



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The weighted-average fair value of employee stock purchase rights granted in the three months ended April 1, 2012 was \$4.09. The fair value of the employees purchase rights granted in the three months ended April 1, 2012 was estimated using the Black-Scholes option-pricing model with the following assumptions:

	For the Three Months Ended April 1, 2012
Expected life (years)	0.5
Interest rate	0.06%
Volatility-historical	52.6%
Dividend yield	0.0%

**I. Accumulated Other Comprehensive Income**

At March 31, 2013 and December 31, 2012, the accumulated other comprehensive income balances were as follows:

	March 31, 2013	December 31, 2012
	(in thousands)	
Retirement plans prior service benefit, net of tax of \$(125) and \$(125)	\$ 2,786	\$ 2,895
Unrealized gains on marketable securities, net of tax of \$835 and \$835	3,013	2,925
<b>Total accumulated other comprehensive income</b>	<b>\$ 5,799</b>	<b>\$ 5,820</b>

Reclassifications out of accumulated other comprehensive income to the statement of operations for the three months ended March 31, 2013 and April 1, 2012, were as follows:

Details about Accumulated Other Comprehensive Income Components	For the Three Months Ended		Affected Line Item in the Statements of Operations
	March 31, 2013	April 1, 2012	
	(in thousands)		
Available-for-Sale Marketable Securities			
Unrealized gains	\$ 275	\$ 466	Interest income
	\$ 275	\$ 466	Net income
Amortization of Defined Benefit Pension and Postretirement Plans			
Prior service benefit	\$ 109	\$ 92	(a)
	\$ 109	\$ 92	(a)
<b>Total Reclassifications</b>	<b>\$ 384</b>	<b>\$ 558</b>	<b>Net income</b>

(a) The amortization of prior service benefit is included in the computation of net periodic pension and postretirement benefit costs; see Note M Retirement Plans.



**Table of Contents****J. Intangible Assets**

Amortizable intangible assets consist of the following and are included in intangible assets on the balance sheet:

	Gross Carrying Amount	March 31, 2013		Weighted Average Useful Life
		Accumulated Amortization (in thousands)	Net Carrying Amount	
Developed technology	\$ 357,555	\$ 155,720	\$ 201,835	6.3 years
Customer relationships and service and software maintenance contracts	144,971	68,022	76,949	8.0 years
Trade names and trademarks	33,840	11,793	22,047	9.0 years
Customer backlog	1,000	1,000		0.4 years
<b>Total intangible assets</b>	<b>\$ 537,366</b>	<b>\$ 236,535</b>	<b>\$ 300,831</b>	<b>7.0 years</b>

	Gross Carrying Amount	December 31, 2012		Weighted Average Useful Life
		Accumulated Amortization (in thousands)	Net Carrying Amount	
Developed technology	\$ 357,555	\$ 143,126	\$ 214,429	6.3 years
Customer relationships and service and software maintenance contracts	144,971	63,464	81,507	8.0 years
Trade names and trademarks	33,840	10,909	22,931	9.0 years
Customer backlog	1,000	1,000		0.4 years
<b>Total intangible assets</b>	<b>\$ 537,366</b>	<b>\$ 218,499</b>	<b>\$ 318,867</b>	<b>7.0 years</b>

Aggregate intangible asset amortization expense was \$18.0 million and \$18.4 million, respectively, for the three months ended March 31, 2013 and April 1, 2012. Estimated intangible asset amortization expense for each of the five succeeding fiscal years is as follows:

Year	Amortization Expense (in thousands)
2013 (remainder)	\$ 54,096
2014	69,102
2015	52,351
2016	52,351
2017	46,193

**Table of Contents****K. Net Income per Common Share**

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

	For the Three Months Ended	
	March 31, 2013	April 1, 2012
	(in thousands except per share amounts)	
Net income for basic net income per share	\$ 6,589	\$ 33,564
Weighted average common shares-basic	189,686	185,838
Effect of dilutive potential common shares:		
Incremental shares from assumed conversion of convertible Note(1)	23,386	23,000
Convertible note hedge warrant shares(2)	18,859	18,319
Restricted stock units	1,123	1,647
Stock options	1,676	2,325
Employee stock purchase rights	27	24
Dilutive potential common shares	45,071	45,315
Weighted average common shares-diluted	234,757	231,153
Net income per common share-basic	\$ 0.03	\$ 0.18
Net income per common share-diluted	\$ 0.03	\$ 0.15

- (1) Incremental shares from assumed conversion of the convertible notes for the three months ended March 31, 2013 and April 1, 2012 are calculated using the difference between the average Teradyne stock price for the period and the conversion price of \$5.48, multiplied by the 34.7 million shares that would be issued upon conversion. The result of this calculation, representing the total intrinsic value of the convertible debt, is divided by the average Teradyne stock price for the period.
- (2) Convertible note hedge warrant shares for the three months ended March 31, 2013 and April 1, 2012 are calculated using the difference between the average Teradyne stock price for the period and the warrant price of \$7.67, multiplied by the 34.7 million shares that would be issued upon conversion. The result of this calculation, representing the total intrinsic value of the warrant, is divided by the average Teradyne stock price for the period.

The computation of diluted net income per common share for the three months ended March 31, 2013 excludes the effect of the potential exercise of stock options to purchase approximately 0.4 million shares because the effect would have been anti-dilutive.

The computation of diluted net income per common share for the three months ended April 1, 2012 excludes the effect of the potential exercise of stock options to purchase approximately 0.3 million shares and restricted stock units of 1.0 million because the effect would have been anti-dilutive.

With respect to Teradyne's convertible debt, Teradyne intends to settle its conversion spread (i.e., the intrinsic value of the embedded option feature contained in the convertible debt) in shares. Teradyne accounts for its conversion spread using the treasury stock method.

**L. Restructuring and Other***Other*

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During the three months ended April 1, 2012, Teradyne recorded a \$1.9 million fair value adjustment to decrease the LitePoint acquisition contingent consideration.

**Table of Contents****Restructuring**

In response to a downturn in the industry in 2008 and 2009, Teradyne initiated restructuring activities across its Semiconductor Test and Systems Test segments to reduce costs, principally through headcount reductions and facility consolidations. The remaining accrual for severance and benefits of \$0.2 million is reflected in the accrued employees' compensation and withholdings on the balance sheet and is expected to be paid by October 2013. The remaining accrual for lease payments on vacated facilities of \$0.8 million is reflected in the other accrued liabilities and is expected to be paid by October 2013. As of March 31, 2013, Teradyne subleased approximately 20% of its unoccupied space.

	Severance and Benefits	Facility Exit Costs (in thousands)	Total
<b>Pre-2012 Activities</b>			
Balance at December 31, 2011	\$ 325	\$ 1,862	\$ 2,187
Cash payments	(325)	(778)	(1,103)
Balance at December 31, 2012		1,084	1,084
Change in estimate		(105)	(105)
Cash payments		(183)	(183)
Balance at March 31, 2013	\$	\$ 796	\$ 796
<b>2012 Activities</b>			
<i>Q2 2012 Activity:</i>			
Provision	\$ 286	\$	\$ 286
Change in estimate	(4)		(4)
Cash payments	(282)		(282)
Balance at December 31, 2012	\$	\$	\$
<i>Q3 2012 Activity:</i>			
Provision	\$ 687	\$	\$ 687
Cash payments	(444)		(444)
Balance at December 31, 2012	243		243
Cash payments	(243)		(243)
Balance at March 31, 2013	\$	\$	\$
<b>2013 Activities</b>			
<i>Q1 2013 Activity:</i>			
Provision	\$ 437	\$	\$ 437
Cash payments	(194)		(194)
Balance at March 31, 2013	\$ 243	\$	\$ 243
Balance at March 31, 2013	\$ 243	\$ 796	\$ 1,039

During the three months ended March 31, 2013, Teradyne recorded a \$0.4 million of severance charges related to headcount reductions of 2 people in Systems Test and 2 people in Semiconductor Test.

**M. Retirement Plans**



***Defined Benefit Pension Plans***

Teradyne has defined benefit pension plans covering a portion of domestic employees and employees of certain non-U.S. subsidiaries. Benefits under these plans are based on employees' years of service and compensation. Teradyne's funding policy is to make contributions to these plans in accordance with local laws.

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and to the extent that such contributions are tax deductible. The assets of these plans consist primarily of fixed income and equity securities. In addition, Teradyne has an unfunded supplemental executive defined benefit plan in the United States to provide retirement benefits in excess of levels allowed by the Employment Retirement Income Security Act ( ERISA ) and the Internal Revenue Code ( IRC ), as well as unfunded foreign plans.

Teradyne's net periodic pension cost was comprised of the following:

	For the Three Months Ended	
	March 31, 2013	April, 2012
	(in thousands)	
Service cost	\$ 834	\$ 722
Interest cost	3,294	4,083
Expected return on plan assets	(3,630)	(4,087)
Amortization of unrecognized prior service cost	41	58
Settlement loss	76	
 Total net periodic pension cost	 \$ 615	 \$ 776

In the three months ended March 31, 2013, Teradyne contributed \$0.4 million to the U.S. supplemental executive defined benefit pension plan and \$0.3 million to certain qualified plans for non-U.S. subsidiaries.

**Postretirement Benefit Plans**

In addition to receiving pension benefits, U.S. Teradyne employees who meet early retirement eligibility requirements as of their termination dates may participate in Teradyne's Welfare Plan, which includes death, and medical and dental benefits up to age 65. Death benefits provide a fixed sum to retirees' survivors and are available to all retirees. Substantially all of Teradyne's current U.S. employees could become eligible for these benefits, and the existing benefit obligation relates primarily to those employees.

Teradyne's net periodic postretirement benefit was comprised of the following:

	For the Three Months Ended	
	March 31, 2013	April, 2012
	(in thousands)	
Service cost	\$ 16	\$ 19
Interest cost	87	110
Amortization of unrecognized prior service benefit	(150)	(150)
 Total net periodic postretirement benefit	 \$ (47)	 \$ (21)

**N. Commitments and Contingencies****Purchase Commitments**

As of March 31, 2013, Teradyne had entered into purchase commitments for certain components and materials. The purchase commitments aggregate to approximately \$192.6 million, of which \$190.2 million is for less than one year.

**Legal Claims**

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Teradyne is subject to various legal proceedings and claims which have arisen in the ordinary course of business. In the opinion of management, the ultimate disposition of these matters will not have a material adverse effect on Teradyne's results of operations, financial condition or cash flows.

**Table of Contents****O. Income Taxes**

The income tax benefit of \$8.0 million for the three months ended March 31, 2013, included approximately a \$6.7 million of discrete tax benefit related to 2012 U.S. federal research and development tax credit retrospectively reinstated under the American Taxpayer Relief Act of 2012. The income tax expense for the three months ended April 1, 2012, of \$7.7 million included a \$3.2 million of discrete tax benefit resulting from reductions in uncertain tax positions related to statute expirations of transfer pricing issues.

**P. Segment Information**

Teradyne has three operating segments (Semiconductor Test, Wireless Test, and Systems Test), which are its reportable segments. The Semiconductor Test segment includes operations related to the design, manufacturing and marketing of semiconductor test products and services. The Wireless Test segment includes operations related to design, manufacturing and marketing of wireless test products and services. The Systems Test segment includes operations related to design, manufacturing and marketing of products and services for military/aerospace instrumentation test, storage test and circuit-board test. Each operating segment has a segment manager who is directly accountable to and maintains regular contact with Teradyne's chief operating decision maker (Teradyne's chief executive officer) to discuss operating activities, financial results, forecasts, and plans for the segment.

Teradyne evaluates performance based on several factors, of which the primary financial measure is business segment income before income taxes. The accounting policies of the business segments are the same as those described in Note B Accounting Policies in Teradyne's Annual Report on Form 10-K for the year ended December 31, 2012. Segment information is as follows:

	Semiconductor Test	Wireless Test	Systems Test (in thousands)	Corporate and Eliminations	Consolidated
<b>Three months ended March 31, 2013:</b>					
Net revenues	\$ 211,506	\$ 33,598	\$ 35,263	\$	\$ 280,367
Income (loss) before income taxes(1)(2)	13,766	(9,997)	1,530	(6,725)	(1,426)
<b>Three months ended April 1, 2012:</b>					
Net revenues	\$ 267,588	\$ 31,328	\$ 97,752	\$	\$ 396,668
Income (loss) before income taxes(1)(2)	34,998	(12,312)	21,978	(3,420)	41,244

(1) Interest income and interest expense and other are included in Corporate and Eliminations.

(2) Included in the income (loss) before income taxes for each of the segments are charges and credits for the three months ended March 31, 2013 and April 1, 2012 that include restructuring and other, and provision for excess and obsolete inventory, as follows:

Included in the Semiconductor Test segment are charges for the following:

	For the Three Months Ended	
	March 31, 2013	April 1, 2012
	(in thousands)	
Cost of revenues provision for excess and obsolete inventory	\$ 213	\$ 212
Total	\$ 213	\$ 212

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Included in the Wireless Test segment are charges for the following:

	For the Three Months Ended	
	March 31, 2013	April 1, 2012
	(in thousands)	
Cost of revenues inventory step-up	\$	\$ 4,871
Cost of revenues provision for excess and obsolete inventory	2,668	473
<b>Total</b>	<b>\$ 2,668</b>	<b>\$ 5,344</b>

Included in the Systems Test segment are charges for the following:

	For the Three Months Ended	
	March 31, 2013	April 1, 2012
	(in thousands)	
Cost of revenues provision for excess and obsolete inventory	\$ 919	\$ 889
Restructuring and other	244	
<b>Total</b>	<b>\$ 1,163</b>	<b>\$ 889</b>

Included in Corporate and Eliminations are credits for the following:

	For the Three Months Ended	
	March 31, 2013	April 1, 2012
	(in thousands)	
Restructuring and other	\$	\$ (1,825)
<b>Total</b>	<b>\$</b>	<b>\$ (1,825)</b>

**Q. Stock Repurchase Program**

In November 2010, Teradyne's board of directors authorized a stock repurchase program for up to \$200 million. In the three months ended March 31, 2013 and April 1, 2012, Teradyne did not repurchase any shares. Cumulatively, as of March 31, 2013, Teradyne has repurchased 2.6 million shares of common stock for \$31.2 million at an average price of \$11.84.

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### **Item 2: Management's Discussion and Analysis of Financial Condition and Results of Operations**

Statements in this Quarterly Report on Form 10-Q which are not historical facts, so called forward looking statements, are made pursuant to the safe harbor provisions of Section 21E of the Securities Exchange Act of 1934, as amended. Investors are cautioned that all forward looking statements involve risks and uncertainties, including those detailed in our filings with the Securities and Exchange Commission. See also Part II, Item 1A of this Quarterly Report on Form 10-Q and Part I, Item 1A Risk Factors in our Annual Report on Form 10-K for the year ended December 31, 2012. Readers are cautioned not to place undue reliance on these forward-looking statements which reflect management's analysis only as of the date hereof. We assume no obligation to update these forward-looking statements to reflect actual results or changes in factors or assumptions affecting forward-looking statements, except as may be required by law.

### **Overview**

We are a leading global supplier of automatic test equipment. We design, develop, manufacture and sell automatic test systems and solutions used to test semiconductors, wireless products, hard disk drives and circuit boards in the consumer electronics, wireless, automotive, industrial, computing, communications and aerospace and defense industries. Our automatic test equipment products and services include:

semiconductor test ( Semiconductor Test ) systems;

wireless test ( Wireless Test ) systems; and

military/aerospace ( Mil/Aero ) test instrumentation and systems, storage test ( Storage Test ) systems, and circuit-board test and inspection ( Commercial Board Test ) systems, collectively these products represent Systems Test .

We have a broad customer base which includes integrated device manufacturers ( IDMs ), outsourced semiconductor assembly and test providers ( OSATs ), wafer foundries, fabless companies that design, but contract with others for the manufacture of integrated circuits ( ICs ), developers of wireless devices and consumer electronics, manufacturers of circuit boards, automotive suppliers, wireless product manufacturers, storage device manufacturers, aerospace and military contractors.

In 2011, we acquired LitePoint Corporation ( LitePoint ) to expand our product portfolio of test equipment in the wireless test sector. LitePoint designs, develops, and supports advanced wireless test solutions for the development and manufacturing of wireless devices, including smart phones, tablets, notebooks/laptops, personal computer peripherals, and other Wi-Fi and cellular enabled devices. LitePoint is our Wireless Test segment.

The sales of our products and services are dependent, to a large degree, on customers who are subject to cyclical trends in the demand for their products. These cyclical periods have had, and will continue to have, a significant effect on our business since our customers often delay or accelerate purchases in reaction to changes in their businesses and to demand fluctuations in the semiconductor industry. Historically, these demand fluctuations have resulted in significant variations in our results of operations. This was particularly relevant beginning in the fourth quarter of fiscal year 2008 where we saw a significant decrease in revenues in our Semiconductor Test business which was impacted by the deteriorating global economy, which negatively impacted the entire semiconductor industry. The sharp swings in the semiconductor industry in recent years have generally affected the semiconductor test equipment and services industry more significantly than the overall capital equipment sector.

We believe our acquisitions of LitePoint, Eagle Test and Nextest, and our entry into the high speed memory and storage test markets have enhanced our opportunities for growth. We will continue to invest in our business to expand further our addressable markets while tightly managing our costs.

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**Critical Accounting Policies and Estimates**

We have identified the policies which are critical to understanding our business and our results of operations. There have been no significant changes during the three months ended March 31, 2013 to the items disclosed as our critical accounting policies and estimates in Management's Discussion and Analysis of Financial Condition and Results of Operations in our Annual Report on Form 10-K for the fiscal year ended December 31, 2012.

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**SELECTED RELATIONSHIPS WITHIN THE CONDENSED CONSOLIDATED  
STATEMENTS OF OPERATIONS**

	For the Three Months Ended	
	March 31, 2013	April 1, 2012
Percentage of total net revenues:		
Net revenues:		
Products	76%	83%
Services	24	17
<b>Total net revenues</b>	<b>100</b>	<b>100</b>
Cost of revenues:		
Cost of products	35	44
Cost of services	11	8
<b>Total cost of revenues</b>	<b>45</b>	<b>52</b>
Gross profit	55	48
Operating expenses:		
Engineering and development	22	15
Selling and administrative	24	17
Acquired intangible asset amortization	6	5
Restructuring and other		
<b>Total operating expenses</b>	<b>53</b>	<b>36</b>
<b>Income from operations</b>	<b>2</b>	<b>12</b>
Interest income		
Interest expense and other	(2)	(2)
(Loss) income before income taxes	(1)	10
Income tax (benefit) provision	(3)	2
<b>Net income</b>	<b>2%</b>	<b>8%</b>

**Results of Operations***First Quarter 2013 Compared to First Quarter 2012**Book to Bill Ratio*

Book to bill ratio is calculated as net bookings divided by net sales. Book to bill ratio by reportable segment was as follows:

	For the Three Months Ended	
	March 31, 2013	April 1, 2012
Semiconductor Test	1.2	1.4



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Wireless Test	3.3	1.3
Systems Test	0.9	0.5
Total Company	1.4	1.2

**Table of Contents***Revenues*

Net revenues by reportable segments were as follows:

	For the Three Months Ended		Dollar Change
	March 31, 2013	April 1, 2012 (in millions)	
Semiconductor Test	\$ 211.5	\$ 267.6	\$ (56.1)
Wireless Test	33.6	31.3	2.3
Systems Test	35.3	97.8	(62.5)
	\$ 280.4	\$ 396.7	\$ (116.3)

The decrease of \$56.1 million or 21% in Semiconductor Test revenues from the three months ended April 1, 2012 to the three months ended March 31, 2013, was primarily due to a decrease in system-on-a-chip ( SOC ) test product sales. The decrease in Systems Test revenue of \$62.5 million or 64% was primarily due to a decrease in sales due to lower product volume in Storage Test systems.

Our revenues by region as a percentage of total net revenue were as follows:

	For the Three Months Ended	
	March 31, 2013	April 1, 2012
United States	21%	12%
China	17	14
Taiwan	15	14
Korea	8	16
Europe	8	6
Singapore	8	6
Malaysia	7	4
Japan	6	8
Philippines	5	7
Thailand	4	13
Rest of World	1	
	100%	100%

*Gross Profit*

Our gross profit was as follows:

	For the Three Months Ended		Dollar/Point Change
	March 31, 2013	April 1, 2012 (in millions)	
Gross Profit	\$ 153.4	\$ 190.9	\$ (37.5)
Percent of Total Revenue	54.7%	48.1%	6.6

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Gross profit as a percent of revenue increased by 6.6 percentage points from the three months ended April 1, 2012 to the three months ended March 31, 2013, primarily due to a favorable product mix in SOC Semiconductor Test products and lower Storage Test systems sales.

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We assess the carrying value of our inventory on a quarterly basis by estimating future demand and comparing that demand against on-hand and on-order inventory positions. Forecasted revenue information is obtained from the sales and marketing groups and incorporates factors such as backlog and future revenue demand. This quarterly process identifies obsolete and excess inventory. Obsolete inventory, which represents items for which there is no demand, is fully reserved. Excess inventory, which represents inventory items that are not expected to be consumed during the next four quarters, is written-down to estimated net realizable value.

During the three months ended March 31, 2013, we recorded an inventory provision of \$3.8 million due to the downward revisions to previously forecasted demand levels. Of the \$3.8 million of total excess and obsolete provisions, \$2.7 million was related to Wireless Test, \$0.9 million was related to Systems Test, and \$0.2 million was related to Semiconductor Test.

During the three months ended April 1, 2012, we recorded an inventory provision of \$1.6 million included in cost of revenues, due to the downward revisions to previously forecasted demand levels. Of the \$1.6 million of total excess and obsolete provisions recorded in the three months ended April 1, 2012, \$0.9 million was related to Systems Test, \$0.5 million was related to Wireless Test, and \$0.2 million was related to Semiconductor Test.

During the three months ended March 31, 2013 and April 1, 2012, we scrapped \$0.6 million and \$4.1 million of inventory, respectively. During the three months ended March 31, 2013 and April 1, 2012, we sold \$1.8 million and \$1.3 million, respectively, of previously written-down or written-off inventory. As of March 31, 2013, we had inventory related reserves for amounts which had been written-down or written-off totaling \$143.3 million. We have no pre-determined timeline to scrap the remaining inventory.

*Engineering and Development*

Engineering and development expenses were as follows:

	<b>For the Three Months Ended</b>		
	<b>March 31, 2013</b>	<b>April 1, 2012</b>	<b>Dollar Change</b>
	<b>(in millions)</b>		
Engineering and Development	\$ 62.8	\$ 61.3	\$ 1.5
Percent of Total Revenue	22.4%	15.4%	

The increase of \$1.5 million in engineering and development expenses from the three months ended April 1, 2012 to the three months ended March 31, 2013, was due primarily to increased spending in Semiconductor Test, partially offset by lower variable compensation.

*Selling and Administrative*

Selling and administrative expenses were as follows:

	<b>For the Three Months Ended</b>		
	<b>March 31, 2013</b>	<b>April 1, 2012</b>	<b>Dollar Change</b>
	<b>(in millions)</b>		
Selling and Administrative	\$ 67.9	\$ 66.6	\$ 1.3
Percent of Total Revenue	24.2%	16.8%	

The increase of \$1.3 million in selling and administrative expenses from the three months ended April 1, 2012 to the three months ended March 31, 2013, was due primarily to increased sales and marketing spending in Wireless Test and Semiconductor Test, partially offset by lower variable compensation.

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### *Restructuring and Other*

#### *Other*

During the three months ended April 1, 2012, we recorded a \$1.9 million fair value adjustment to decrease the LitePoint acquisition contingent consideration.

#### *Restructuring*

In response to a downturn in the industry in 2008 and 2009, we initiated restructuring activities across our Semiconductor Test and Systems Test segments to reduce costs, principally through headcount reductions and facility consolidations. The remaining accrual for severance and benefits of \$0.2 million is reflected in the accrued employees' compensation and withholdings on the balance sheet and is expected to be paid by October 2013. The remaining accrual for lease payments on vacated facilities of \$0.8 million is reflected in the other accrued liabilities and is expected to be paid by October 2013. As of March 31, 2013, we subleased approximately 20% of our unoccupied space.

During the three months ended March 31, 2013, we recorded \$0.4 million of severance charges related to headcount reductions of 2 people in Systems Test and 2 people in Semiconductor Test.

#### *Interest and Other*

Interest income increased by \$0.2 million from the three months ended April 1, 2012 to the three months ended March 31, 2013, due primarily to higher cash and marketable securities balances in the first quarter of 2013. Interest expense and other increased by \$0.8 million from the three months ended April 1, 2012 to the three months ended March 31, 2013, due primarily to higher interest expense from increased convertible debt discount amortization.

#### *Income Taxes*

For the three months ended March 31, 2013, we recorded a tax benefit of \$8.0 million which consisted primarily of foreign tax provisions and a U.S. deferred tax benefit. The tax benefit of \$8.0 million included approximately \$6.7 million of a discrete tax benefit related to a 2012 U.S. federal research and development tax credit retrospectively reinstated under the American Taxpayer Relief Act of 2012. For the three months ended April 1, 2012, we recorded a tax provision of \$7.7 million, which primarily consisted of foreign taxes and a U.S. deferred tax provision.

On a quarterly basis, we evaluate the realizability of our deferred tax assets by jurisdiction and assess the need for a valuation allowance. At March 31, 2013, we believe that we will ultimately realize the deferred tax assets recorded on our condensed consolidated balance sheet. However, should we believe that it is more likely than not that our deferred tax assets would not be realized, our tax provision would increase in the period in which we determined that the realizability was not likely. We consider the probability of future taxable income and our historical profitability, among other factors, in assessing the realizability of our deferred tax assets.

**Table of Contents****Contractual Obligations**

The following table reflects our contractual obligations at March 31, 2013:

	Total	Less than 1 year	Payments Due by Period		More than 5 years	Other
			1-3 years	3-5 years		
			(in thousands)			
Debt Obligations	\$ 193,185	\$ 193,185	\$	\$	\$	\$
Interest on Debt	8,572	8,572				
Contingent Acquisition Payments	75	75				
Operating Lease Obligations	51,706	13,938	20,635	10,313	6,820	
Purchase Obligations	192,624	190,155	2,469			
Retirement Plan Contributions	53,333	5,130	10,574	10,762	26,867	
Other Long-Term Liabilities Reflected on the Balance Sheet under GAAP(1)	86,236		15,622			70,614
Total	\$ 585,731	\$ 411,055	\$ 49,300	\$ 21,075	\$ 33,687	\$ 70,614

- (1) Included in Other Long-Term Liabilities are liabilities for customer advances, extended warranty, uncertain tax positions and other obligations. For certain long-term obligations, we are unable to provide a reasonably reliable estimate of the timing of future payments relating to these obligations and therefore we included these amounts in the column marked Other .

**Liquidity and Capital Resources**

Our cash, cash equivalents and marketable securities balances decreased by \$50.1 million in the three months ended March 31, 2013, to \$956.3 million. Cash activity for the three months ended March 31, 2013 and April 1, 2012 was as follows:

	For the Three Months Ended	
	March 31, 2013	April 1, 2012
	(in millions)	
Cash provided by operating activities:		
Net income, adjusted for non-cash items	\$ 49.4	\$ 90.3
Change in operating assets and liabilities	(85.9)	(79.1)
Total cash (used for) provided by operating activities	(36.5)	11.2
Total cash used for investing activities	(5.8)	(54.4)
Total cash provided by financing activities	8.6	2.9
Decrease in cash and cash equivalents	\$ (33.7)	\$ (40.3)

In the three months ended March 31, 2013, changes in operating assets and liabilities used cash of \$85.9 million. This was due to an \$18.3 million increase in operating assets and a \$67.6 million decrease in operating liabilities.

The increase in operating assets was due to a \$13.2 million increase in accounts receivable due to higher sales volume, a \$4.0 million increase in inventories, and \$1.1 million increase in other assets primarily due to an increase in prepayments. The decrease in operating liabilities was due to

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a \$43.3 million decrease in accrued employee compensation due primarily to variable compensation and employee stock awards payroll taxes payments, a \$10.1 million decrease in customer advance payments and deferred revenue, a \$9.1 million decrease in accrued income taxes, a \$4.8 million decrease in other accrued liabilities and a \$1.1 million of retirement plan contributions, partially offset by a \$0.8 million increase in accounts payable due to increased sales volume.

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Investing activities during the three months ended March 31, 2013 used cash of \$5.8 million, due to \$124.5 million used for purchases of marketable securities and \$22.5 million used for purchases of property, plant and equipment, partially offset by proceeds from maturities and sales of marketable securities that provided cash of \$119.5 million and \$21.7 million, respectively.

Financing activities during the three months ended March 31, 2013 provided cash of \$8.6 million, \$8.9 million was from the issuance of common stock under stock option and stock purchase plans, partially offset by \$0.3 million of cash used for payments related to LitePoint acquisition contingent consideration.

In the three months ended April 1, 2012, changes in operating assets and liabilities used cash of \$79.1 million. This was due to a \$66.7 million increase in operating assets and a \$12.4 million decrease in operating liabilities.

The increase in operating assets was due to a \$92.2 million increase in accounts receivable resulting from higher sales volume, partially offset by \$23.6 million decrease in inventories and a \$1.9 million decrease in prepayments. The decrease in operating liabilities was due to a \$46.1 million decrease in accrued employee compensation due primarily to variable compensation payments, a \$4.2 million decrease in customer advance payments due to shipments of systems prepaid by customers, \$1.1 million of retirement plan contributions, partially offset by a \$36.5 million increase in accounts payable due to increase sales volume, and a \$2.5 million increase in deferred revenue.

Investing activities during the three months ended April 1, 2012 used cash of \$54.4 million, due to \$80.1 million used for purchases of marketable securities and \$27.1 million used for purchases of property, plant and equipment, partially offset by proceeds from maturities and sales of marketable securities that provided cash of \$46.5 million and \$6.3 million, respectively.

Financing activities during the three months ended April 1, 2012 provided cash of \$2.9 million, \$9.9 million was from the issuance of common stock under stock option and stock purchase plans, partially offset by \$5.8 million of cash used for payments related to LitePoint acquisition contingent consideration and \$1.2 million of cash used for payments on long-term debt related to the Japan loan.

We believe our cash, cash equivalents and marketable securities balance will be sufficient to meet working capital and expenditure needs for at least the next twelve months. The amount of cash, cash equivalents and marketable securities in the U.S. and our operations in the U.S. provide sufficient liquidity to fund our business activities in the U.S. We have approximately \$300 million of cash outside the U.S. that if repatriated would incur additional taxes. Inflation has not had a significant long-term impact on earnings.

## **Equity Compensation Plans**

As discussed in Note P **Stock Based Compensation** in our 2012 Form 10-K, we have a 1996 Employee Stock Purchase Plan and a 2006 Equity and Cash Compensation Incentive Plan (the **2006 Equity Plan**).

The purpose of the 1996 Employee Stock Purchase Plan is to encourage stock ownership by all eligible employees of Teradyne. The purpose of the 2006 Equity Plan is to provide equity ownership and compensation opportunities in Teradyne to our employees, officers, directors, consultants and/or advisors. Both plans were approved by our shareholders.

## **Recently Issued Accounting Pronouncements**

In December 2011, the FASB issued ASU No. 2011-11, *Disclosures about Offsetting Assets and Liabilities*. This ASU is intended to enhance the understanding of the effects of netting arrangements on an entity's financial statements, including financial instruments and derivative instruments that are either offset or



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subject to a master netting arrangement. The scope of this ASU includes derivatives, sale and repurchase agreements, reverse sale and repurchase agreements, and securities borrowing and lending arrangements. The provisions of this ASU are effective for interim and annual periods beginning on or after January 1, 2013. We adopted this ASU effective January 1, 2013. See Note D Financial Instruments and Derivatives.

In February 2013, the Financial Accounting Standards Board (FASB) issued ASU 2013-02, Comprehensive Income (Topic 220): Reporting of Amounts Reclassified out of Accumulated Other Comprehensive Income amending the disclosure requirements regarding the reporting of amounts reclassified out of accumulated other comprehensive income. The amendment does not change the current requirement for reporting net income or other comprehensive income, but requires additional disclosures about significant amounts reclassified out of accumulated other comprehensive income including the effect of the reclassification on the related net income line items. The provisions of this ASU are effective for interim and annual periods beginning on or after January 1, 2013. We adopted this amendment effective January 1, 2013. See Note I Accumulated Other Comprehensive Income.

### **Item 3: Quantitative and Qualitative Disclosures about Market Risk**

For Quantitative and Qualitative Disclosures about Market Risk affecting Teradyne, see Item 7a, Quantitative and Qualitative Disclosures about Market Risks, in our Annual Report on Form 10-K filed with the SEC on March 1, 2013. There were no material changes in our exposure to market risk from those set forth in our Annual Report for the fiscal year ended December 31, 2012.

### **Item 4: Controls and Procedures**

As of the end of the period covered by this report, our management, with the participation of our Chief Executive Officer and Chief Financial Officer, evaluated the effectiveness of our disclosure controls and procedures pursuant to Rule 13a-15(b) promulgated under the Exchange Act. Based upon that evaluation, our Chief Executive Officer and Chief Financial Officer concluded that, as of the end of the period covered by this report, our disclosure controls and procedures were effective in ensuring that material information required to be disclosed in the reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms, including ensuring that such material information is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosure.

During the period covered by this report, there have been no changes in our internal control over financial reporting that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting. A control system, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met.

**Table of Contents****PART II. OTHER INFORMATION****Item 1: Legal Proceedings**

We are subject to various legal proceedings and claims which have arisen in the ordinary course of business. In the opinion of management, the ultimate disposition of these matters will not have a material adverse effect on our results of operations, financial condition or cash flows.

**Item 1A: Risk Factors**

You should carefully consider the factors discussed in Part I, Item 1A: Risk Factors in our Annual Report on Form 10-K for the year ended December 31, 2012, which could materially affect our business, financial condition or future results. The risk factors described in our Annual Report on Form 10-K remain applicable to our business.

The risks described in our Annual Report on Form 10-K are not the only risks that we face. Additional risks and uncertainties not currently known to us or that we currently deem to be immaterial also may materially adversely affect our business, financial condition and/or operating results.

**Item 2: Unregistered Sales of Equity Securities and Use of Proceeds**

In November 2010, Teradyne's board of directors authorized a stock repurchase program for up to \$200 million. Cumulatively, as of March 31, 2013, we have repurchased 2.6 million shares of common stock for \$31.2 million at an average price of \$11.84.

The following table includes information with respect to repurchases we made of our common stock during the three months ended March 31, 2013 (in thousands except per share price):

Period	(a) Total Number of Shares (or Units) Purchased	(b) Average Price Paid per Share (or Unit)	(c) Total Number of Shares (or Units) Purchased as Part of Publicly Announced Plans or Programs	(d) Maximum Number (or Approximate Dollar Value) of Shares (or Units) that may Yet Be Purchased Under the Plans or Programs
January 1, 2013 – January 27, 2013		\$		\$ 168,825
January 28, 2013 – February 24, 2013		\$		\$ 168,825
February 25, 2013 – March 31, 2013		\$		\$ 168,825
		\$		\$ 168,825

We satisfy the U.S. minimum statutory withholding tax obligation due upon the vesting and the conversion of restricted stock units into shares of our common stock, by automatically withholding from the shares being issued a number of shares with an aggregate fair market value on the date of such vesting and conversion that would satisfy the minimum withholding amount due.

**Item 4: Mine Safety Disclosures**

Not Applicable



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**Item 6: Exhibits**

<b>Exhibit Number</b>	<b>Description</b>
31.1	Certification of Principal Executive Officer, pursuant to Rule 13a-14(a) of Securities and Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (filed herewith)
31.2	Certification of Principal Financial Officer, pursuant to Rule 13a-14(a) of Securities and Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (filed herewith)
32.1	Certification pursuant to 18 U.S.C. 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (furnished herewith)
32.2	Certification pursuant to 18 U.S.C. 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (furnished herewith)
101.INS	XBRL Instance Document
101.SCH	XBRL Taxonomy Extension Schema Document
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document
101.LAB	XBRL Taxonomy Extension Label Linkbase Document
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document

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**SIGNATURES**

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

**TERADYNE, INC.**  
Registrant

*/s/* GREGORY R. BEECHER  
**Gregory R. Beecher**

**Vice President,**  
**Chief Financial Officer and Treasurer**

**(Duly Authorized Officer**  
**and Principal Financial Officer)**

**May 10, 2013**