

# VEECO INSTRUMENTS INC

## FORM 10-Q (Quarterly Report)

Filed 05/07/09 for the Period Ending 03/31/09

Address	TERMINAL DRIVE PLAINVIEW, NY 11803
Telephone	516 677-0200
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Symbol	VECO
SIC Code	3559 - Special Industry Machinery, Not Elsewhere Classified
Industry	Semiconductors
Sector	Technology
Fiscal Year	12/31

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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

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**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, 2009

OR

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

For the transition period from            to            .

Commission file number 0-16244

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**VEECO INSTRUMENTS INC.**

(Exact Name of Registrant as Specified in Its Charter)

**Delaware**  
(State or Other Jurisdiction of  
Incorporation or Organization)

**11-2989601**  
(I.R.S. Employer  
Identification Number)

**Terminal Drive**  
**Plainview, New York**  
(Address of Principal Executive Offices)

**11803**  
(Zip Code)

Registrant's telephone number, including area code: **(516) 677-0200**

Website: **www.veeco.com**

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

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T 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   
(Do not check if a Smaller  
reporting company)

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

32,129,344 shares of common stock, \$0.01 par value per share, were outstanding as of the close of business on May 6, 2009.

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## SAFE HARBOR STATEMENT

This Quarterly Report on Form 10-Q (the “Report”) contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. Discussions containing such forward-looking statements may be found in Items 2 and 3 hereof, as well as within this Report generally. In addition, when used in this Report, the words “believes,” “anticipates,” “expects,” “estimates,” “plans,” “intends,” and similar expressions are intended to identify forward-looking statements. All forward-looking statements are subject to a number of risks and uncertainties that could cause actual results to differ materially from projected results. These risks and uncertainties include, without limitation, the following:

- Negative worldwide economic conditions could result in a decrease in our net sales and an increase in our operating costs, which could adversely affect our business and operating results;
- Our sales to data storage and HB-LED manufacturers are highly dependent on these manufacturers’ sales for consumer electronics applications, which can experience significant volatility due to seasonal and other factors, which could materially adversely impact our future results of operations;
- We are exposed to risks associated with entering the emerging solar industry;
- We may be required to take additional impairment charges for goodwill and indefinite-lived intangible assets or definite-lived intangible and long-lived assets;
- Any failure by us to execute our planned cost reductions successfully could result in total costs and expenses that are greater than expected;
- The cyclical nature of the industries we serve directly affects our business;
- We operate in industries characterized by rapid technological change;
- We face significant competition;
- We depend on a limited number of customers that operate in highly concentrated industries;
- The timing of our orders, shipments, and revenue recognition may cause our quarterly operating results to fluctuate significantly;
- Changes in our product mix may cause our quarterly operating results to fluctuate significantly;
- Our backlog is subject to customer cancellation or modification and such cancellation could result in decreased sales and increased provisions for excess and obsolete inventory;
- Our sales cycle is long and unpredictable;
- The failure to successfully implement outsourcing activities and other operational initiatives could adversely affect results of operations;
- Manufacturing interruptions or delays could affect our ability to meet customer demand, while the failure to estimate customer demand accurately could result in excess or obsolete inventory;
- We rely on a limited number of suppliers;
- Our inability to attract, retain, and motivate key employees could have a material adverse effect on our business;
- We are exposed to the risks of operating a global business;
- We are subject to foreign currency exchange risks;

- The enforcement and protection of our intellectual property rights may be expensive and could divert our valuable resources;
- We may be subject to claims of intellectual property infringement by others;
- Our acquisition strategy subjects us to risks associated with evaluating and pursuing these opportunities and integrating these businesses;
- We are substantially leveraged, which could adversely affect our ability to adjust our business to respond to competitive pressures and to obtain sufficient funds to finance our future needs;
- Changes in accounting pronouncements or taxation rules or practices may adversely affect our financial results;
- The price of our common shares may be volatile and could decline significantly;
- We are subject to internal control evaluations and attestation requirements of Section 404 of the Sarbanes-Oxley Act;
- We are subject to risks of non-compliance with environmental and safety regulation;
- We have significant operations in California and other locations which could be materially and adversely impacted, in the event of a natural disaster or other significant disruption;
- We have adopted certain measures that may have anti-takeover effects which may make an acquisition of our Company by another company more difficult; and
- The other matters discussed under the heading “Management’s Discussion and Analysis of Financial Condition and Results of Operations” contained in this Report and in the Annual Report on Form 10-K for the year ended December 31, 2008 of Veeco Instruments Inc. (“Veeco,” the “Company,” or “we”).

Consequently, such forward-looking statements should be regarded solely as our current plans, estimates and beliefs. We do not undertake any obligation to update any forward-looking statements to reflect future events or circumstances after the date of such statements.

#### **Available Information**

We file annual, quarterly and current reports, information statements and other information with the Securities and Exchange Commission (the “SEC”). The public may read and copy any materials we file with the SEC at the SEC’s Public Reference Room at 450 Fifth Street, N.W., Washington, D.C. 20549. The public may obtain information on the operation of the Public Reference Room by calling the SEC at 1-800-SEC-0330. The SEC also maintains an Internet site that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC. The address of that site is <http://www.sec.gov>.

#### **Internet Address**

We maintain a website where additional information concerning our business and various upcoming events can be found. The address of our website is [www.veeco.com](http://www.veeco.com). We provide a link on our website, under Investors — Financial Information — SEC Filings, through which investors can access our filings with the SEC, including our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, and all amendments to such reports. These filings are posted to our Internet site, as soon as reasonably practicable after we electronically file such material with the SEC.

VEECO INSTRUMENTS INC.

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PART I. FINANCIAL INFORMATION

Item 1. Financial Statements

**Veeco Instruments Inc. and Subsidiaries**  
**Condensed Consolidated Statements of Operations**  
**(In thousands, except per share data)**  
**(Unaudited)**

	Three months ended	
	March 31,	
	2009	2008
Net sales	\$ 62,849	\$ 102,307
Cost of sales	42,467	59,681
Gross profit	20,382	42,626
Operating expenses:		
Selling, general, and administrative expense	18,607	22,628
Research and development expense	12,886	14,726
Amortization expense	1,829	1,956
Restructuring expense	4,431	2,875
Asset impairment charge	—	285
Other expense, net	1,486	4
Total operating expenses	39,239	42,474
Operating (loss) income	(18,857)	152
Interest expense, net	1,709	1,605
Loss before income taxes	(20,566)	(1,453)
Income tax provision	378	919
Net loss including noncontrolling interest	(20,944)	(2,372)
Net loss attributable to the noncontrolling interest	(42)	(76)
Net loss attributable to Veeco	\$ (20,902)	\$ (2,296)
Loss per common share:		
Net loss attributable to Veeco	\$ (0.66)	\$ (0.07)
Diluted net loss attributable to Veeco	\$ (0.66)	\$ (0.07)
Weighted average shares outstanding	31,515	31,161
Diluted weighted average shares outstanding	31,515	31,161

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

**Veeco Instruments Inc. and Subsidiaries**  
**Condensed Consolidated Balance Sheets**  
(In thousands)

	March 31, 2009 (Unaudited)	December 31, 2008
<b>Assets</b>		
Current assets:		
Cash and cash equivalents	\$ 93,048	\$ 103,799
Accounts receivable, net	37,911	59,659
Inventories	88,729	94,930
Prepaid expenses and other current assets	6,217	6,425
Deferred income taxes	2,077	2,185
Total current assets	227,982	266,998
Property, plant, and equipment at cost, net	63,275	64,372
Goodwill	59,160	59,160
Intangible assets, net	36,671	38,818
Other assets	187	193
Total assets	<u>\$ 387,275</u>	<u>\$ 429,541</u>
<b>Liabilities and shareholders' equity</b>		
Current liabilities:		
Accounts payable	\$ 25,050	\$ 29,610
Accrued expenses	50,307	66,964
Deferred profit	1,425	1,346
Current portion of long-term debt	200	196
Income taxes payable	13	354
Total current liabilities	76,995	98,470
Deferred income taxes	4,771	4,540
Long-term debt	98,971	98,330
Other non-current liabilities	1,941	2,391
Shareholders' equity:		
Shareholders' equity attributable to Veeco	203,855	225,026
Noncontrolling interest	742	784
Total shareholders' equity	204,597	225,810
Total liabilities and shareholders' equity	<u>\$ 387,275</u>	<u>\$ 429,541</u>

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

**Veeco Instruments Inc. and Subsidiaries**  
**Condensed Consolidated Statements of Cash Flows**  
(In thousands)  
(Unaudited)

	Three months ended March 31,	
	2009	2008
<b>Operating activities</b>		
Net loss attributable to Veeco	\$ (20,902)	\$ (2,296)
Adjustments to reconcile net loss to net cash provided by operating activities:		
Depreciation and amortization	5,556	5,594
Amortization of debt discount	693	713
Non-cash share-based compensation expense	1,398	1,609
Non-cash inventory write-off	1,526	—
Deferred income taxes	222	642
Non-cash asset impairment charge	—	285
Other, net	(3)	(69)
Changes in operating assets and liabilities:		
Accounts receivable	20,709	1,942
Inventories	4,960	(6,264)
Accounts payable	(4,470)	1,262
Accrued expenses, deferred profit, and other current liabilities	(7,209)	(4,639)
Other, net	(348)	1,547
Net cash provided by operating activities	2,132	326
<b>Investing activities</b>		
Capital expenditures	(2,418)	(3,053)
Payment of earn-out for Solar business	(9,644)	—
Proceeds from sale of property, plant, and equipment	—	2
Net cash used in investing activities	(12,062)	(3,051)
<b>Financing activities</b>		
Proceeds from stock issuances	—	155
Restricted stock tax withholdings	(2)	(31)
Repayments of long-term debt	(48)	(180)
Net cash used in financing activities	(50)	(56)
Effect of exchange rate changes on cash and cash equivalents	(771)	127
Net decrease in cash and cash equivalents	(10,751)	(2,654)
Cash and cash equivalents at beginning of period	103,799	117,083
Cash and cash equivalents at end of period	<u>\$ 93,048</u>	<u>\$ 114,429</u>
<b>Non-cash investing and financing activities</b>		
Transfers from property, plant, and equipment to inventory	\$ 360	\$ 363
Transfers from inventory to property, plant, and equipment	23	—

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

**Veeco Instruments Inc. and Subsidiaries**  
**Notes to Condensed Consolidated Financial Statements (Unaudited)**

**Note 1—Basis of Presentation**

The accompanying unaudited condensed consolidated financial statements of Veeco Instruments Inc. (together with its consolidated subsidiaries, “Veeco,” the “Company” or “we”) have been prepared in accordance with accounting principles generally accepted in the United States (“U.S.”) for interim financial information and with the instructions to Form 10-Q and Article 10 of Regulation S-X. Accordingly, they do not include all of the information and footnotes required by U.S. generally accepted accounting principles for complete financial statements. In the opinion of management, all adjustments considered necessary for a fair presentation (consisting of normal recurring accruals) have been included. Operating results for the three months ended March 31, 2009, are not necessarily indicative of the results that may be expected for the year ending December 31, 2009. For further information, refer to the financial statements and footnotes thereto included in our Annual Report on Form 10-K for the year ended December 31, 2008.

Consistent with prior years, we report interim quarters, other than fourth quarters which always end on December 31, on a 13-week basis ending on the last Sunday within such period. The interim quarter ends are determined at the beginning of each year based on the 13-week quarters. The 2009 interim quarter ends are March 29, June 28, and September 27. The 2008 interim quarter ends were March 30, June 29, and September 28. For ease of reference, we report these interim quarter ends as March 31, June 30, and September 30 in our interim condensed consolidated financial statements.

*Net Loss Per Common Share*

Net loss per common share is computed using the weighted average number of common shares outstanding during the period. Diluted net loss per common share is computed using the weighted average number of common shares and common equivalent shares outstanding during the period. The effect of approximately 62,000 common equivalent shares for the three months ended March 31, 2009 and approximately 140,000 common equivalent shares for the three months ended March 31, 2008 were excluded from the diluted weighted average shares outstanding due to a net loss sustained for each period.

During the second quarter of 2007, we exchanged \$118.8 million of our \$144 million in our unsecured 4.125% convertible subordinated notes due December 2008 (the “Old Notes”) for \$117.8 million of a new series of 4.125% convertible subordinated notes (the “Notes”) due April 15, 2012, leaving the \$25.2 million of the Old Notes that had not been exchanged outstanding. For the three months ended March 31, 2008, the weighted-average effect of the assumed conversion of the remaining \$25.2 million of Old Notes was approximately 0.7 million shares. The convertible shares were anti-dilutive and, therefore, were not included in the weighted shares outstanding for the three months ended March 31, 2008. During the fourth quarter of 2008, we repaid the remaining \$25.2 million of Old Notes outstanding.

The Notes meet the criteria for determining the effect of the assumed conversion using the treasury stock method of accounting, as long as we have the ability and the intent to settle the principal amount of the Notes in cash. Under the terms of the Notes, we may pay the principal amount of converted Notes in cash or in shares of common stock. We have indicated that we intend to pay such amounts in cash. Using the treasury stock method, the impact of the assumed conversion of the Notes was anti-dilutive for the three months ended March 31, 2009 and 2008, as the average stock price for each period was below the conversion price of \$27.23. The effect of the assumed converted shares is dependent on the stock price at the time of the conversion. The maximum number of common equivalent shares issuable upon conversion at March 31, 2009 was approximately 5.4 million, after giving effect to the \$12.2 million of Notes that we repurchased during the fourth quarter of 2008. See Note 8 for further details on our debt.

*Derivative Financial Instruments*

We use derivative financial instruments to minimize the impact of foreign exchange rate changes on earnings and cash flows. In the normal course of business, our operations are exposed to fluctuations in foreign exchange rates. In order to reduce the effect of fluctuating foreign currencies on short-term foreign currency-denominated intercompany transactions and other known foreign currency exposures, we enter into monthly forward contracts.

We do not use derivative financial instruments for trading or speculative purposes. Our forward contracts are intended to offset exchange gains and losses on the underlying assets and liabilities; the forward contracts are marked-to-market through earnings. We conduct our derivative transactions with highly rated financial institutions in an effort to mitigate any material credit risk. The weighted average notional amount of derivative contracts outstanding during the three months ended March 31, 2009 was approximately \$4.8 million.

The condensed consolidated results of operations for the three months ended March 31, 2009 include aggregate foreign currency losses of approximately \$1.4 million, which were net of gains of approximately \$0.2 million related to forward contracts. For the three months ended March 31, 2008, the results include aggregate net foreign currency gains of approximately \$0.1 million, which included losses of approximately \$0.3 million related to forward contracts. These amounts were recognized and included in other expense, net.

As of March 31, 2009, approximately \$0.1 million of gains related to forward contracts were included in prepaid and other current assets, and cash in an amount equivalent to such gains was received in April 2009. As of December 31, 2008, approximately \$0.9 million of losses related to forward contracts were included in accrued expenses and subsequently paid in January 2009. Monthly forward contracts with a total notional amount of \$4.7 million were entered into in March 2009 and will be settled in April 2009. The fair value of these contracts at inception was zero, which did not significantly change at March 31, 2009.

#### *Noncontrolling Interest*

In December 2007, the FASB issued Statement of Financial Accounting Standards No. 160, *Noncontrolling Interests in Consolidated Financial Statements — an Amendment of ARB No. 51* (“SFAS 160”). The purpose of SFAS 160 is to improve the relevance, comparability, and transparency of the financial information that a reporting entity provides in its consolidated financial statements. The most significant provisions of this statement result in changes to the presentation of noncontrolling interests in the consolidated financial statements. We implemented SFAS 160 as of January 1, 2009. The adoption of this statement impacted the manner in which we present noncontrolling interests for all periods included in this report, but did not impact our consolidated financial position or results of operations.

#### *Convertible Debt*

In May 2008, the FASB issued FASB Staff Position No. APB 14-1, *Accounting for Convertible Debt Instruments That May Be Settled in Cash upon Conversion (Including Partial Cash Settlement)* (“FSP APB 14-1”). We implemented FSP APB 14-1 as of January 1, 2009 and have applied it retrospectively to all periods presented, as required. See Note 8—Debt for a discussion of the impact of implementing FSP APB 14-1.

#### **Note 2—Acquisition of Mill Lane Engineering Co., Inc.**

On May 22, 2008, we acquired Mill Lane Engineering Co., Inc. (“Mill Lane”), a privately held manufacturer of web coating systems for flexible solar panels, for a purchase price of \$11.0 million, net of cash acquired, plus potential future earn-out payments of up to \$19.0 million (representing additional purchase price) contingent upon the future achievement of certain operating performance criteria. Fees related to the acquisition were \$0.7 million. Mill Lane is based in Lowell, Massachusetts and at the time of acquisition had approximately 20 employees. Mill Lane’s financial results are included in our LED & Solar Process Equipment segment (see Note 5) as of the acquisition date. We have determined that this acquisition does not constitute a material business combination and therefore are not including pro forma financial statements in this report.

As of December 31, 2008, we had accrued \$9.6 million for our earn-out obligation due to the former owners of Mill Lane resulting from the achievement of certain operating performance criteria earned through the end of the fourth quarter of 2008. Payment of this earn-out was made in the first quarter of 2009.

#### **Note 3—Share-Based Payments**

##### *Stock Option and Restricted Stock Compensation*

Share-based compensation cost is measured at the grant date, based on the fair value of the award, and is recognized as expense over the employee requisite service period in accordance with FASB Statement of Financial Accounting Standards No. 123(R), *Share-Based Payment* (“SFAS 123(R)”).

The following compensation expense was included in the condensed consolidated statements of operations for the three months ended March 31, 2009 and 2008 (in thousands):

	Three months ended March 31	
	2009	2008
Share-based compensation expense	\$ 1,398	\$ 1,609

As of March 31, 2009, the total unrecognized compensation cost related to nonvested stock awards is \$8.1 million and to stock option awards is \$5.9 million. The related weighted average period over which we expect that such unrecognized compensation costs will be recognized is approximately 2.7 years for the nonvested stock awards and 2.0 years for option awards.

A summary of our restricted stock awards including restricted stock units as of and for the three months ended March 31, 2009, is presented below:

	Shares (000s)	Weighted Average Grant-Date Fair Value
Nonvested at beginning of year	679	\$ 17.84
Granted	2	4.20
Vested	(1)	19.29
Forfeited (including cancelled awards)	(34)	17.74
Nonvested at March 31, 2009	<u>646</u>	<u>17.80</u>

A summary of our stock option plans as of and for the three months ended March 31, 2009, is presented below:

	Shares (000s)	Weighted- Average Exercise Price	Aggregate Intrinsic Value (000s)	Weighted- Average Remaining Contractual Life (in years)
Outstanding at beginning of year	5,572	\$ 20.29		
Granted	0	0		
Exercised	0	0		
Forfeited (including cancelled options)	(90)	17.50		
Expirations of vested options	(188)	21.46		
Outstanding at March 31, 2009	<u>5,294</u>	<u>20.29</u>	\$ 388	3.2
Options exercisable at March 31, 2009	<u>3,826</u>	<u>21.34</u>	\$ 379	2.1

#### Note 4—Balance Sheet Information

##### *Accounts Receivable, net*

Accounts receivable are shown net of the allowance for doubtful accounts of \$1.0 million and \$0.9 million as of March 31, 2009 and December 31, 2008, respectively.

##### *Inventories*

Inventories are stated at the lower of cost (principally first-in, first-out) or market. Inventories consist of (in thousands):

	March 31, 2009	December 31, 2008
Raw materials	\$ 53,681	\$ 57,815
Work in process	25,623	28,733
Finished goods	9,425	8,382
	<u>\$ 88,729</u>	<u>\$ 94,930</u>

## Accrued Warranty

We estimate the costs that may be incurred under the warranty we provide and record a liability in the amount of such costs at the time the related revenue is recognized. Factors that affect our warranty liability include product failure rates, material usage and labor costs incurred in correcting product failures during the warranty period. We periodically assess the adequacy of our recognized warranty liability and adjust the amount as necessary. Changes in our warranty liability during the period are as follows (in thousands):

	Three months ended March 31	
	2009	2008
Balance as of beginning of period	\$ 6,892	\$ 6,502
Warranties issued during the period	426	1,558
Settlements made during the period	(775)	(1,453)
Balance at end of period	<u>\$ 6,543</u>	<u>\$ 6,607</u>

## Note 5—Segment Information

We manage the business, review operating results and assess performance, as well as allocate resources, based upon three separate reporting segments that reflect the market focus of each business. The Light Emitting Diode (“LED”) & Solar Process Equipment segment consists of metal organic chemical vapor deposition (“MOCVD”) systems, molecular beam epitaxy (“MBE”) systems, thermal deposition sources, and other types of deposition systems used to deposit materials on flexible and glass substrates. These systems are primarily sold to customers in the high-brightness light emitting diode (“HB-LED”) and solar industries, as well as to scientific research customers. This segment has production facilities in Somerset, New Jersey, St. Paul, Minnesota, and Lowell, Massachusetts. The Data Storage Process Equipment segment consists of the ion beam etch, ion beam deposition, diamond-like carbon, physical vapor deposition, and dicing and slicing products sold primarily to customers in the data storage industry. This segment has production facilities in Plainview, New York, Ft. Collins, Colorado, and Camarillo, California. In our Metrology segment, we design and manufacture atomic force microscopes, scanning probe microscopes, stylus profilers, and optical interferometers used to provide critical surface measurements in research and production environments. This broad line of products is used in universities, research facilities and scientific centers worldwide. In production environments such as semiconductor, data storage and other broad industries, our metrology instruments enable customers to monitor their products throughout the manufacturing process to improve yields, reduce costs, and improve product quality. This segment has production facilities in Camarillo and Santa Barbara, California and Tucson, Arizona.

We evaluate the performance of our reportable segments based on income (loss) from operations before interest, income taxes, amortization and certain items (“segment (loss) profit”), which is the primary indicator used to plan and forecast future periods. The presentation of this financial measure facilitates meaningful comparison with prior periods, as management believes segment (loss) profit reports baseline performance and thus provides useful information. Certain items include restructuring expenses, asset impairment charges, inventory write-offs, and equity-based compensation expense. The accounting policies of the reportable segments are the same as those described in the summary of critical accounting policies.

The following tables present certain data pertaining to our reporting segments and a reconciliation of segment (loss) profit to income (loss) before income taxes for the three months ended March 31, 2009 and 2008, respectively, and goodwill and total assets as of March 31, 2009 and December 31, 2008, respectively (in thousands):

	LED & Solar Process Equipment	Data Storage Process Equipment	Metrology	Unallocated Corporate Amount	Total
<b>Three months ended March 31, 2009</b>					
Net sales	\$ 22,202	\$ 16,905	\$ 23,742	\$ —	\$ 62,849
Segment loss	\$ (3,712)	\$ (1,632)	\$ (2,705)	\$ (1,624)	\$ (9,673)
Interest expense, net	—	—	—	1,709	1,709
Amortization expense	775	405	577	72	1,829
Equity-based compensation expense	156	252	236	754	1,398
Restructuring expense	734	1,386	2,124	187	4,431
Inventory write-off	—	1,526	—	—	1,526
Loss before income taxes	<u>\$ (5,377)</u>	<u>\$ (5,201)</u>	<u>\$ (5,642)</u>	<u>\$ (4,346)</u>	<u>\$ (20,566)</u>

**Three months ended March 31, 2008**

Net sales	\$ 42,132	\$ 24,078	\$ 36,097	\$ —	\$ 102,307
Segment profit (loss)	\$ 8,667	\$ (1,321)	\$ 1,948	\$ (2,417)	\$ 6,877
Interest expense, net	—	—	—	1,605	1,605
Amortization expense	487	952	406	111	1,956
Equity-based compensation expense	75	151	126	1,257	1,609
Restructuring expense	—	124	190	2,561	2,875
Asset impairment charges	—	—	—	285	285
Income (loss) before income taxes	\$ 8,105	\$ (2,548)	\$ 1,226	\$ (8,236)	\$ (1,453)

	<u>LED &amp; Solar Process Equipment</u>	<u>Data Storage Process Equipment</u>	<u>Metrology</u>	<u>Unallocated Corporate Amount</u>	<u>Total</u>
<b>As of March 31, 2009</b>					
Goodwill	\$ 51,727	\$ —	\$ 7,433	\$ —	\$ 59,160
Total assets	\$ 141,398	\$ 63,733	\$ 77,294	\$ 104,850	\$ 387,275

**As of December 31, 2008**

Goodwill	\$ 51,727	\$ —	\$ 7,433	\$ —	\$ 59,160
Total assets	\$ 137,037	\$ 84,335	\$ 85,390	\$ 122,779	\$ 429,541

Corporate total assets are comprised principally of cash and cash equivalents and property and equipment at March 31, 2009 and December 31, 2008.

**Note 6—Income Taxes**

We had approximately \$1.0 million of unrecognized tax benefits at March 31, 2009 and December 31, 2008, respectively, which predominantly relate to positions taken on our foreign tax returns and all of which represent the amount of unrecognized tax benefits that, if recognized, would favorably impact the effective income tax rate in future periods.

We or one of our subsidiaries file income tax returns in the U.S. federal jurisdiction and various state, local, and foreign jurisdictions. All material federal, state, local, and foreign income tax matters have been concluded for years through 2002 subject to subsequent utilization of net operating losses generated in such years. During the third quarter of 2008, the Internal Revenue Service initiated an examination of our Federal income tax return for the calendar year 2006. The majority of our foreign jurisdictions have been reviewed through 2007 with only a few jurisdictions having open tax years between 2004 and 2007. None of our tax returns are currently under examination in foreign jurisdictions.

We recognize interest and penalties related to income tax matters in income tax expense. The total accrual for interest and penalties related to uncertain tax positions was approximately \$0.3 million as of March 31, 2009 and December 31, 2008.

**Note 7—Comprehensive (Loss) Income**

Total comprehensive (loss) income for the three months ended March 31, 2009 and 2008 was as follows (in thousands):

	<b>Three months ended</b>	
	<b>March 31,</b>	
	<u>2009</u>	<u>2008</u>
Net loss including noncontrolling interest	\$ (20,944)	\$ (2,372)
Other comprehensive (loss) income, net of tax:		
Foreign currency translation	(1,665)	3,033
Comprehensive (loss) income:	\$ (22,609)	\$ 661
Comprehensive loss attributable to the noncontrolling interest	(42)	(76)
Comprehensive (loss) income attributable to Veeco	<u>\$ (22,567)</u>	<u>\$ 737</u>

## Note 8—Debt

### Convertible Debt

During the second quarter of 2007, we exchanged \$118.8 million of our \$144 million in unsecured 4.125% convertible subordinated notes due December 2008 (the “Old Notes”) for \$117.8 million of a new series of 4.125% convertible subordinated notes (the “Notes”) due April 15, 2012 pursuant to privately negotiated exchange agreements with certain holders of the Old Notes. During the fourth quarter of 2008 we repaid in full the \$25.2 million of the Old Notes that remained outstanding after the exchange transactions .

The Notes are initially convertible into 36.7277 shares of common stock per \$1,000 principal amount of Notes (equivalent to a conversion price of \$27.23 per share or a premium of 38% over the closing market price for Veeco’s common stock on April 16, 2007). Holders may convert the Notes at any time during the period beginning on January 15, 2012 through the close of business on the second day prior to April 15, 2012 and earlier upon the occurrence of certain events including our common stock trading at prices equal to 130% over the conversion price for a specified period. We pay interest on these Notes on April 15 and October 15 of each year. The Notes are unsecured and are effectively subordinated to all of our senior and secured indebtedness, and to all indebtedness and other liabilities of our subsidiaries.

We implemented FSP APB 14-1 as of January 1, 2009 and have applied it retrospectively to all periods presented, as required. FSP APB 14-1 requires issuers of convertible debt that can be settled in cash to separately account for ( *i.e.*, bifurcate) a portion of the debt associated with the conversion feature and reclassify this portion to stockholders’ equity. The liability portion, which represents the fair value of the debt without the conversion feature, is accreted to its face value using the effective interest method by amortizing the discount between the face amount and the fair value. The amortization is recorded as non-cash interest expense. The Notes are subject to FSP APB 14-1 since they may be settled in cash upon conversion. Thus, as a result of the adoption of FSP APB 14-1, we reclassified approximately \$16.3 million from long-term debt to additional paid-in capital effective as of the date of issuance of the Notes. This reclassification created a \$16.3 million discount on the debt that will be amortized over the remaining life of the Notes, which will be through April 15, 2012. The reclassification generated a \$6.7 million deferred tax liability, which we offset with a corresponding decrease of the valuation allowance by the same amount. FSP APB 14-1 requires that we present prior periods as if the guidance was in effect as of the date of issuance. Thus, we have presented all financial data for prior periods as if we had reclassified this \$16.3 million discount and began amortizing it in April 2007.

During the fourth quarter of 2008, we repurchased an aggregate principal amount of \$12.2 million of the Notes for \$7.2 million in cash, of which \$7.1 million related to principal and \$0.1 million related to accrued interest, reducing the amount outstanding from \$117.8 million to \$105.6 million. A gross gain of approximately \$5.1 million was recorded on these repurchases offset by the write-off of approximately \$0.1 million of unamortized deferred financing costs associated with the Notes, for a net gain of approximately \$5.0 million. Such net gain was reduced to \$3.8 million upon the adoption of FSP APB 14-1, which required that the gain be calculated based on the fair value of the portion repurchased as of the repurchase date. The fair value approximated the carrying value net of the unamortized discount on the portion repurchased. The difference of approximately \$1.2 million was recorded as a reduction in the gain originally reported, and thus increased the accumulated deficit as of December 31, 2008 by such amount.

For the three months ended March 31, 2009 and 2008, respectively, we recorded approximately \$0.7 million of additional interest expense in each period resulting from the amortization of the debt discount. This additional interest expense did not require the use of cash. The retrospective application of FSP APB 14-1 to the results for the three months ended March 31, 2008 increased the net loss attributable to Veeco in that period from (\$1,583) to (\$2,296) and increased the net loss per share attributable to Veeco from (\$0.05) to (\$0.07).

The components of interest expense recorded on the Notes for the three months ended March 31, 2009 and 2008 were as follows (in thousands):

	Three months ended March 31,	
	2009	2008
Contractual interest	\$ 1,089	\$ 1,214
Amortization of the discount on the Notes	693	713
Total interest expense on the Notes	<u>\$ 1,782</u>	<u>\$ 1,927</u>

The total interest expense recorded on the Notes amounted to an effective interest rate of 6.8% and 6.5% for the three months ended March 31, 2009 and 2008, respectively.

The carrying amounts of the liability and equity components of the Notes as of March 31, 2009 and December 31, 2008, respectively, were as follows (in thousands):

	March 31, 2009	December 31, 2008
Carrying amount of the equity component	<u>\$ 16,318</u>	<u>\$ 16,318</u>
Principal balance of the liability component	\$ 105,574	\$ 105,574
Less: unamortized discount	9,646	10,339
Net carrying value of the liability component	<u>\$ 95,928</u>	<u>\$ 95,235</u>

The total effect on shareholders' equity as of the date of adoption on January 1, 2009 was a net increase of \$10.3 million, comprised of an increase in additional paid-in capital of \$16.3 million and an increase in the accumulated deficit of \$6.0 million. The \$6.0 million is comprised of \$2.9 million and \$1.9 million in amortization of the debt discount for 2008 and 2007, respectively, as well as the \$1.2 million reduction in the gain that was recorded on the November 2008 repurchases. A rollforward of the components of debt and shareholders' equity from issuance through the date of adoption of FSP APB 14-1 is as follows:

	Debt	Debt Discount	Additional Paid-In Capital	Accum. Deficit	Total Shareholders' Equity
Principal amount of debt at issuance in April 2007	\$ 117,744	\$ —	\$ —	\$ —	\$ —
Bifurcation of conversion feature at issuance	—	(16,318)	16,318	—	16,318
Amortization of debt discount in 2007	—	1,851	—	(1,851)	(1,851)
Amortization of debt discount in 2008	—	2,918	—	(2,918)	(2,918)
Repurchase of debt in November 2008	(12,170)	1,210	—	(1,210)	(1,210)
Balance at adoption date of January 1, 2009	<u>\$ 105,574</u>	<u>\$ (10,339)</u>	<u>\$ 16,318</u>	<u>\$ (5,979)</u>	<u>\$ 10,339</u>

#### *Credit Agreement*

In February 2009, we entered into an amendment to our existing credit agreement with HSBC Bank USA, National Association ("HSBC"), as administrative agent, and the lenders named therein (as amended, the "Credit Agreement"). As part of the amendment, we reduced the amount of the revolving credit facility, modified certain existing covenants and added certain new covenants. As amended, the Credit Agreement provides for revolving credit borrowings of up to \$30.0 million. The Credit Agreement was amended effective March 27, 2009 to modify certain financial covenants, to provide for the cash collateralization of borrowings under the Credit Agreement, and to permit the acquisition of the 80.1% noncontrolling interest in Fluens Corporation ("Fluens"). The annual interest rate under the Credit Agreement is a floating rate equal to the prime rate of the agent bank plus 2.0%. A LIBOR-based interest rate option is also provided. Borrowings may be used for general corporate purposes, including working capital requirements, as well as permitted acquisitions.

The Credit Agreement contains certain restrictive covenants which include the maintenance of minimum cash balances and limitations with respect to incurrence of indebtedness, the payment of dividends, long-term leases, investments, mergers, acquisitions, consolidations and sales of assets. In addition, under the Credit Agreement, we are required to satisfy certain financial tests, including minimum profitability levels. As of the effective date of the amendment, we were in compliance with all covenants of the Credit Agreement. Substantially all of our assets and those of our material domestic subsidiaries, other than real estate, have been pledged to secure our obligations under the Credit Agreement. The revolving credit facility under the Credit Agreement expires on March 31, 2012. In the first quarter of 2009, we recognized an expense of \$0.2 million representing the amount of deferred financing fees equal to the portion of the revolving credit facility which was terminated in connection with the amendment, which is included in other expense, net. We capitalized \$0.1 million in deferred financing fees that we incurred in connection with the February 2009 amendment. As of March 31, 2009 and December 31, 2008, there were no borrowings outstanding under the Credit Agreement and letters of credit outstanding were approximately \$0.5 million and \$0.4 million, respectively. Interest expense associated with the Credit Agreement recorded during the three months ended March 31, 2009 and 2008, respectively, was approximately \$0.1 million for each period.

#### Note 9— Fair Value Measurements

We implemented the guidance in Statement of Financial Accounting Standards No. 157, *Fair Value Measurements* (“SFAS 157”), for our non-financial assets and non-financial liabilities as of January 1, 2009. SFAS 157 defines fair value, establishes a framework for measuring fair value, and enhances fair value measurement disclosure. The accounts subject to the guidance are our long-lived assets, goodwill, and intangible assets. The implementation expanded our fair value disclosures but did not impact our consolidated financial position or results of operations. However, applying the provisions of SFAS 157 may impact our periodic fair value measurements for long-lived assets, goodwill and intangible assets in the future, as fair values calculated under SFAS 157 may be different from the fair values that would have been calculated under previous guidance.

SFAS 157 requires that we disclose the type of inputs we use to value such assets, based on three categories of inputs as defined in SFAS 157. Level 1 inputs are quoted, unadjusted prices in active markets for identical assets or liabilities that the company has the ability to access at the measurement date. Level 2 inputs are inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly, such as quoted prices for similar assets or liabilities. Level 3 inputs are unobservable inputs for the asset or liability. Unobservable inputs are used to measure fair value to the extent that observable inputs are not available, thereby allowing for situations in which there is little, if any, market activity for the asset or liability at the measurement date. We use Level 3 inputs to value all of our property, plant and equipment, goodwill, and intangible assets balances. We value such assets on a non-recurring basis and did not perform a valuation during the first quarter of 2009, though the methodology we would use to value such assets has not changed since December 31, 2008. We did not record any gain or loss in adjusting the carrying amounts to fair value in the three months ended March 31, 2009, since we made no such adjustment during that period. The carrying amounts of property, plant and equipment, goodwill, and intangible assets as of March 31, 2009 were \$63,275, \$59,160, and \$36,671, respectively.

#### Note 10— Commitments, Contingencies and Other Matters

##### *Restructuring and Other Charges*

During 2008 and through the first quarter of 2009, we have continued our multi-quarter plan to improve profitability and reduce and contain spending. We have made progress against the initiatives that management has set, continued our restructuring plan and executed activities with a focus on creating a more variable cost effective organization. These activities included downsizing and consolidating some locations, reducing our workforce, consultants and discretionary expenses and realigning our sales organization and engineering groups. In addition, due to a weakened and deteriorated business environment we intensified and accelerated our restructuring activities.

Restructuring expense for the quarters ended March 31, 2009 and 2008 is as follows (in thousands):

	Three months ended March 31,	
	2009	2008
Personnel severance costs and related costs	\$ 4,386	\$ 321
Lease-related costs	—	2,554
Moving costs and consolidation activities	45	—
	<u>\$ 4,431</u>	<u>\$ 2,875</u>

## 2009 Restructuring and Other Charges

In conjunction with these activities, during the three months ended March 31, 2009, we recognized restructuring charges of approximately \$4.4 million, principally consisting of personnel severance costs resulting from a headcount reduction of approximately 140 employees and the notification of other employees that will be transitioned out of the Company during 2009. This reduction in workforce included executives, management, administration, sales and service personnel and manufacturing employees companywide. We also incurred charges associated with moving and consolidation activities which are scheduled to occur throughout 2009. In addition, we recorded an inventory write-off of \$1.5 million in our Data Storage Process Equipment segment associated with the discontinuance of certain products in connection with transitioning to outsourced manufacturing during the three months ended March 31, 2009, which is included in cost of sales.

The following is a reconciliation of the liability for the 2009 restructuring charge from inception through March 31, 2009 (in thousands):

	<u>LED &amp; Solar Process Equipment</u>	<u>Data Storage Process Equipment</u>	<u>Metrology</u>	<u>Unallocated Corporate</u>	<u>Total</u>
<b>Short-Term Liability</b>					
Personnel severance charges	\$ 702	\$ 1,386	\$ 2,111	\$ 187	\$ 4,386
Moving costs and consolidation	32	—	13	—	45
Total charged to accrual	734	1,386	2,124	187	4,431
Cash payments	(294)	(491)	(1,181)	(86)	(2,052)
Balance as of March 31, 2009	<u>\$ 440</u>	<u>\$ 895</u>	<u>\$ 943</u>	<u>\$ 101</u>	<u>\$ 2,379</u>

The balance of the 2009 restructuring accrual is expected to be paid over the next twelve to fifteen months. We expect to continue our restructuring program in light of the overall business decline, and expect to incur restructuring charges throughout the remainder of 2009 associated with consolidating business units, decreasing the number of manufacturing sites, implementing specific manufacturing initiatives, and centralizing certain functions. We currently expect to incur additional restructuring charges of \$3.6 to \$4.1 million during the remainder of 2009.

## 2008 Restructuring and Other Charges

During the three months ended March 31, 2008, we recorded a \$2.6 million restructuring charge for lease-related costs as part of the consolidation of our Corporate headquarters into our Plainview, New York manufacturing facility. This charge primarily consisted of the liability for the remaining lease payments and property taxes relating to the facility we vacated, offset by expected sublease income. We made certain assumptions in determining the charge, which included estimated sublease income and terms of the sublease as well as the estimated discount rate to be used in determining the fair value of the net cash flows. We developed these assumptions, based on our understanding of the current real estate market as well as current market interest rates, which are adjusted periodically based upon new information, events and changes in the real estate market. During the fourth quarter of 2008, we adjusted these assumptions which resulted in an additional restructuring charge of \$1.1 million.

An asset impairment charge of \$0.3 million was taken during the first quarter of 2008 primarily for leasehold improvements and furniture and fixtures abandoned in connection with the consolidation and relocation of our former corporate headquarters into our Plainview, New York facility.

The following is a reconciliation of the liability for the 2008 restructuring charge from December 31, 2008 through March 31, 2009 (in thousands):

	LED & Solar Process Equipment	Data Storage Process Equipment	Metrology	Unallocated Corporate	Total
<u>Short-Term Liability</u>					
Balance as of December 31, 2008	\$ 660	\$ 270	\$ 534	\$ 1,859	\$ 3,323
Short-term/long-term Reclassification	—	—	—	271	271
Cash payments	(147)	(214)	(284)	(458)	(1,103)
Reversal of accrual	—	—	—	(12)	(12)
Balance as of March 31, 2009	<u>\$ 513</u>	<u>\$ 56</u>	<u>\$ 250</u>	<u>\$ 1,660</u>	<u>\$ 2,479</u>
<u>Long-Term Liability</u>					
Balance as of December 31, 2008	\$ —	\$ —	\$ —	\$ 1,620	\$ 1,620
Short-term/long-term Reclassification	—	—	—	(271)	(271)
Balance as of March 31, 2009	<u>\$ —</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 1,349</u>	<u>\$ 1,349</u>

The balance of the 2008 restructuring accrual related to the lease for the former Corporate headquarters is expected to be paid over the remaining life of that lease, and the remaining balance of the 2008 restructuring accrual is expected to be paid over the next fifteen months.

#### *2007 Restructuring and Other Charges*

As of December 31, 2008, we had a balance of \$0.2 million in the liability related to restructuring charges incurred in 2007. We made cash payments of \$0.1 million against this liability in the first quarter of 2009, and expect to pay the balance of \$0.1 million that remained at March 31, 2009 during the second quarter of 2009.

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

### Executive Summary

We design, manufacture, market, and service enabling solutions for customers in the HB-LED, solar, data storage, scientific research, semiconductor, and industrial markets. We have leading technology positions in our three businesses: LED & Solar Process Equipment, Data Storage Process Equipment, and Metrology Instruments.

In our LED & Solar segment, we design and manufacture MOCVD systems, MBE systems and sources, and other types of deposition systems such as web and glass coaters, which we sell primarily to manufacturers of HB-LEDs and solar panels, as well as to scientific research customers.

In our Data Storage segment, we design and manufacture ion beam etch, ion beam deposition, diamond-like carbon, physical vapor deposition, and dicing and slicing products primarily used to create TFMHs that read and write data on hard drives.

In our Metrology segment, we design and manufacture AFMs, SPMs, stylus profilers, and optical interferometers used to provide critical surface measurements in research and production environments. This broad line of products is used in universities, research facilities and scientific centers worldwide. In production environments such as semiconductor, data storage and other industries, our metrology instruments enable customers to monitor their products throughout the manufacturing process to improve yields, reduce costs, and improve product quality.

We currently maintain facilities in Arizona, California, Colorado, Massachusetts, Minnesota, New Jersey and New York, with sales and service locations in North America, Europe, Japan, and the Asia Pacific region.

### Highlights of the First Quarter of 2009

- Revenue was \$62.8 million, a 38.6% decrease from the first quarter of 2008.
- Orders were \$53.1 million, down 51.4% from the first quarter of 2008.
- Net loss was \$20.9 million, or (\$0.66) per share, compared to a net loss of \$2.3 million, or (\$0.07) per share, in the first quarter of 2008.
- Gross margins were 32.4%, compared to 41.7% in the first quarter of 2008.
- Restructuring charges totaled \$4.4 million, principally consisting of personnel severance costs resulting from a companywide reduction in workforce of approximately 140 employees.
- We recognized an inventory write-off of \$1.5 million in our Data Storage Process Equipment segment in the first quarter of 2009.

### Outlook

The global economic slowdown has had a significant negative impact on our business as we start 2009, affecting our customers' ability and willingness to invest in capital projects in the short term.

Key areas of focus for Veeco in 2009 include:

- Increased variable cost percentage for better performance through the cycles;
- Simplified organizational structure and lower company breakeven point;
- An improved balance sheet;
- Excellent connectivity and relationships with customers; and
- Alignment to customers' technology roadmaps by driving R&D spending toward high growth markets and leveraging Veeco's market positions in core technologies.

In light of the weak business environment, our restructuring program includes:

- Approximately 25% reduction in force from the third quarter of 2008 to be completed by the end of 2009;
- Centralizing supply chain and operational organizations;
- Decreasing the number of manufacturing sites through increased outsourcing for many of our product lines;
- Changing compensation structure for our senior management and Board of Directors; and

- Decreasing discretionary spending in all categories

Given the low first quarter order rate, beginning in the second quarter of 2009 we will be implementing additional cost cutting actions, primarily consisting of plant shut-downs and temporary salary reductions. These actions, when combined with those already underway, will have the impact of reducing manufacturing overhead, service and operating expenses by approximately \$40 million in 2009 compared to last year.

We remain cautious about the economic climate, and do not know how long the current downturn will last. We are, however, encouraged to see early signs of improvement in business conditions. These signals include improved equipment utilization rates, better quoting activity across our three businesses and no significant additional push-outs. We currently believe that second quarter orders will improve from the trough levels we experienced in the first quarter.

## Results of Operations:

### Three Months Ended March 31, 2009 and 2008

Consistent with prior years, we report interim quarters, other than fourth quarters which always end on December 31, on a 13-week basis ending on the last Sunday within such period. The interim quarter ends are determined at the beginning of each year based on the 13-week quarters. The 2009 interim quarter ends are March 29, June 28 and September 27. The 2008 interim quarter ends were March 30, June 29 and September 28. For ease of reference, we report these interim quarter ends as March 31, June 30, and September 30 in our interim condensed consolidated financial statements.

The following table shows our Consolidated Statements of Operations, percentages of sales, and comparisons between the three months ended March 31, 2009 and 2008 (dollars in thousands):

	Three months ended March 31,				Dollar and Percentage Change	
	2009		2008			
Net sales	\$ 62,849	100.0%	\$ 102,307	100.0%	\$ (39,458)	(38.6)%
Cost of sales	42,467	67.6	59,681	58.3	(17,214)	(28.8)
Gross profit	20,382	32.4	42,626	41.7	(22,244)	(52.2)
Operating expenses:						
Selling, general, and administrative expense	18,607	29.6	22,628	22.2	(4,021)	(17.8)
Research and development expense	12,886	20.5	14,726	14.4	(1,840)	(12.5)
Amortization expense	1,829	2.9	1,956	1.9	(127)	(6.5)
Restructuring expense	4,431	7.1	2,875	2.8	1,556	54.1
Asset impairment charge	—	0.0	285	0.2	(285)	(100.0)
Other expense, net	1,486	2.3	4	0.0	1,482	*
Total operating expenses	39,239	62.4	42,474	41.5	(3,235)	(7.6)
Operating (loss) income	(18,857)	(30.0)	152	0.1	(19,009)	*
Interest expense, net	1,709	2.7	1,605	1.6	104	6.5
Loss before income taxes	(20,566)	(32.7)	(1,453)	(1.4)	(19,113)	*
Income tax provision	378	0.6	919	0.9	(541)	(58.9)
Net loss including noncontrolling interest	(20,944)	(33.3)	(2,372)	(2.3)	(18,572)	(783.0)
Net loss attributable to noncontrolling interest	(42)	(0.1)	(76)	(0.1)	34	(44.7)
Net loss attributable to Veeco	\$ (20,902)	(33.3)%	\$ (2,296)	(2.2)%	\$ (18,606)	(810.4)%

\* The percentage change in this item was over 1,000%.

### Net Sales and Orders

Net sales of \$62.8 million for the three months ended March 31, 2009 were down 38.6% compared to the comparable 2008 quarter. The following is an analysis of sales and orders by segment and by region (dollars in thousands):

	Sales				Orders				Book-to-Bill Ratio	
	Three months ended March 31,		Dollar and Percentage Change		Three months ended March 31,		Dollar and Percentage Change		2009	2008
	2009	2008	Year to Year		2009	2008	Year to Year			
<b>Segment Analysis</b>										
LED & Solar Process										
Equipment	\$ 22,202	\$ 42,132	\$ (19,930)	(47.3)%	\$ 28,521	\$ 38,677	\$ (10,156)	(26.3)%	1.28	0.92
Data Storage Process										
Equipment	16,905	24,078	(7,173)	(29.8)	7,818	40,610	(32,792)	(80.7)	0.46	1.69
Metrology	23,742	36,097	(12,355)	(34.2)	16,711	29,972	(13,261)	(44.2)	0.70	0.83
Total	\$ 62,849	\$ 102,307	\$ (39,458)	(38.6)%	\$ 53,050	\$ 109,259	\$ (56,209)	(51.4)%	0.84	1.07
<b>Regional Analysis</b>										
Americas	\$ 19,969	\$ 33,078	\$ (13,109)	(39.6)%	\$ 11,572	\$ 40,641	\$ (29,069)	(71.5)%	0.58	1.23
Europe, Middle East and Africa ("EMEA")	18,261	17,887	374	2.1	11,304	15,883	(4,579)	(28.8)	0.62	0.89
Japan	5,476	16,754	(11,278)	(67.3)	6,926	8,970	(2,044)	(22.8)	1.26	0.54
Asia Pacific	19,143	34,588	(15,445)	(44.7)	23,248	43,765	(20,517)	(46.9)	1.21	1.27
Total	\$ 62,849	\$ 102,307	\$ (39,458)	(38.6)%	\$ 53,050	\$ 109,259	\$ (56,209)	(51.4)%	0.84	1.07

Sales and orders declined in each segment in the first quarter of 2009 compared with the first quarter in 2008 due to our customers' reluctance to invest in capital equipment during the current difficult economic conditions. LED & Solar Process Equipment sales were down 47.3% from the first quarter of 2008 primarily due to a pause in capacity spending as LED customers absorb the equipment purchased from Veeco during the last two years. The book-to-bill ratio in that segment increased to 1.28 from 0.92 in the comparable quarter of 2008. Data Storage Process Equipment segment sales declined by 29.8% from the first quarter of 2008 due to a slowdown in capital spending by our data storage customers. Additionally, Metrology sales decreased by 34.2% from the first quarter of 2008, primarily due to a slowdown in the research, industrial and data storage markets. By region, net sales increased slightly in EMEA, but decreased by 39.6%, 67.3%, and 44.7% in the Americas, Japan, and Asia Pacific, respectively. We believe that there will continue to be quarter-to-quarter variations in the geographic distribution of sales.

Orders for the first quarter of 2009 decreased by 51.4% from the comparable 2008 period. By segment, the 26.3% decrease in orders for LED & Solar Process Equipment was principally driven by economic conditions leading potential customers to delay investing in these emerging markets. The 80.7% decrease in Data Storage Process Equipment orders resulted from customers continuing to freeze their capital spending requirements. The 44.2% decrease in Metrology orders is due to low demand from customers in the semiconductor and research and industrial markets.

Our overall book-to-bill ratio for the first quarter of 2009, which is calculated by dividing orders received in a given time period by revenue recognized in the same time period, was 0.84 to 1, reflecting the difficult market conditions in the last several quarters. Our backlog as of March 31, 2009 was \$135.3 million, compared to \$147.2 million as of December 31, 2008. During the quarter ended March 31, 2009, we experienced backlog adjustments of approximately \$2.1 million, consisting of \$1.8 million for order cancellations and \$0.3 million of adjustments related to foreign currency translation. Due to changing business conditions and weak capital equipment spending by customers in our businesses, we may continue to experience cancellations and/or rescheduling of orders, particularly as the economic downturn has become more significant and wide ranging as credit availability has tightened and financial conditions have deteriorated. We expect 2009 to be a challenging year for the Company as we continue to experience weak new order conditions and customers foregoing capacity and technology investments.

#### *Gross Profit*

Gross profit for the quarter ended March 31, 2009, was 32.4%, compared to 41.7% in the first quarter of 2008, primarily due to the significant decline in sales. Metrology gross margins decreased to 39.1% from 46.6%, principally due to lower sales volume and a less favorable product mix in optical metrology product sales. Data Storage Process Equipment gross margins decreased to 27.4% from 35.3% in the prior-year period, due to reduced sales volume. In the first quarter of 2009 gross margins were also negatively impacted by a charge of \$1.5 million for the write-off of inventory associated with certain discontinued data storage product lines. LED & Solar Process Equipment gross margins decreased to 29.2% from 41.0% in the prior-year period, primarily due to a significant decrease in sales volume as compared to the prior-year period.

#### *Operating Expenses*

Selling, general and administrative expenses decreased by \$4.0 million, or 17.8%, from the prior-year period, primarily due to lower salary and related expenses resulting from the personnel reductions taken as part of management's restructuring plan, as well as cost savings initiatives resulting in less consulting, legal, and professional fees and reduced incentive bonuses and profit sharing.

Research and development expense decreased \$1.8 million from the first quarter of 2008, primarily due to a more focused approach to metrology and data storage product development that was part of our restructuring activities. As a percentage of sales, research and development increased to 20.5% in the first quarter of 2009 from 14.4% in the first quarter of 2008 as a result of lower sales volume.

Amortization expense was \$1.8 million in the first quarter of 2009, compared to \$2.0 million in the first quarter of 2008, due to reduced amortization resulting from asset impairment charges taken during the fourth quarter of 2008, partially offset by intangible assets acquired in connection with the Mill Lane acquisition in May 2008.

Restructuring expense of \$4.4 million for the first quarter of 2009 consists primarily of personnel severance costs resulting from a reduction in workforce associated with management's restructuring plan. Restructuring expense of \$2.9 million for the first quarter of 2008 consisted of \$2.6 million in lease-related costs associated with the consolidation and relocation of our Corporate headquarters into our Plainview, New York facility, and \$0.3 million of personnel severance costs relating to management's restructuring plan announced in 2007.

An asset impairment charge of \$0.3 million was taken during the first quarter of 2008, primarily for leasehold improvements and furniture and fixtures abandoned in connection with the consolidation and relocation of our Corporate headquarters into our Plainview, New York facility.

Other expense, net for the quarter ended March 31, 2009 includes a foreign currency exchange loss of \$1.3 million associated with a significant strengthening of the U.S. dollar against the Euro as the Company was attempting to send back to the U.S. approximately \$12 million of cash collected in Europe.

#### *Interest Expense, Net*

Net interest expense in the first quarter of 2009 was \$1.7 million, comprised of \$1.0 million in cash net interest expense and \$0.7 million in non-cash interest expense related to the implementation of FASB Staff Position No. APB 14-1 (“FSP APB 14-1”), *Accounting for Convertible Debt Instruments That May Be Settled in Cash upon Conversion (Including Partial Cash Settlement)*. Net interest expense in the first quarter of 2008 was \$1.6 million, comprised of \$0.9 million in cash net interest expense and \$0.7 million in non-cash interest expense that is presented pursuant to the retroactive presentation requirements of FSP APB 14-1. See “Recent Accounting Pronouncements” for a further discussion of the implementation of FSP APB 14-1. The increase in net interest expense is due to lower interest income resulting from lower interest rates and lower average cash balances invested during the current period compared to the comparable 2008 period, partially offset by decreases in interest expense resulting from the extinguishment of \$25.2 million of the convertible subordinated notes due in December 2008, and the repurchase of \$12.2 million of our 4.125% convertible subordinated notes due April 2012 during the fourth quarter of 2008.

#### *Income Taxes*

Income tax provision for the quarter ended March 31, 2009 was \$0.4 million compared to \$0.9 million in the first quarter of 2008. The 2009 provision for income taxes included \$0.2 relating to our foreign operations and \$0.2 relating to our domestic operations. The 2008 provision for income taxes included \$0.6 million relating to our foreign operations which continue to be profitable, and \$0.3 million relating to our domestic operations. Due to significant domestic net operating loss carry forwards, which are fully reserved by a valuation allowance, our domestic operations are not expected to incur significant income taxes for the foreseeable future.

#### **Liquidity and Capital Resources**

Historically, our principal capital requirements have included the funding of acquisitions and capital expenditures. We traditionally have generated cash from operations as well as debt and stock issuances. Our ability to generate sufficient cash flows from operations is dependent on the continued demand for our products and services. A summary of the cash flow activity for the three months ended March 31, 2009 and 2008, respectively, is as follows (in thousands):

	Three months ended March 31,	
	2009	2008
Net cash provided by operating activities	\$ 2,132	\$ 326
Net cash used in investing activities	(12,062)	(3,051)
Net cash used in financing activities	(50)	(56)
Effect of exchange rates on cash and cash equivalents	(771)	127
Net change in cash and cash equivalents	(10,751)	(2,654)
Cash and cash equivalents at beginning of period	103,799	117,083
Cash and cash equivalents at end of period	<u>\$ 93,048</u>	<u>\$ 114,429</u>

We had a net decrease in cash of \$10.8 million during the three months ended March 31, 2009, primarily resulting from the \$9.6 million earn-out payment to the former owners of Mill Lane, which we acquired in May 2008. Cash provided by operations was \$2.1 million for this period, as compared to cash provided by operations of \$0.3 million for the comparable 2008 period. Net loss adjusted for non-cash items resulted in a use of operating cash flows of \$11.5 million for the three months ended March 31, 2009, whereas \$6.5 million of operating cash flows were provided in the comparable 2008 period.

Net cash provided by operations for the three months ended March 31, 2009 was impacted by a change in net operating assets and liabilities of \$13.6 million. Inventories decreased by approximately \$5.0 million, principally due to reduced requirements from lower sales volume. Accounts receivable decreased \$20.7 million during the three months ended March 31, 2009, due to lower sales volume when compared to the fourth quarter of 2008. Accrued expenses and other current liabilities decreased \$7.2 million during the three months ended March 31, 2009, due primarily to the payment of management bonuses in the first quarter of 2009. Accounts payable also decreased by \$4.5 million during the first quarter of 2009.

Cash used in investing activities of \$12.1 million for the three months ended March 31, 2009 primarily related to the \$9.6 million earn-out payment with respect to the Mill Lane acquisition, and \$2.4 million in capital expenditures principally in our LED & Solar Process Equipment segment. Cash used in investing activities of \$3.1 million for the three months ended March 31, 2008 primarily related to capital expenditures. During the remainder of 2009, we estimate we will invest an additional \$7.4 million in capital expenditures primarily related to lab tools for high-growth opportunities, with particular emphasis on LED & Solar.

Cash used in financing activities for the three months ended March 31, 2009 totaled \$0.1 million, primarily related to mortgage payments on our facility in St. Paul, Minnesota. Cash used in financing activities for the three months ended March 31, 2008 totaled \$0.1 million, consisting of \$0.2 million in mortgage payments, offset by proceeds from stock issuances resulting from stock option exercises.

As of March 31, 2009, we have outstanding \$105.6 million aggregate principal amount of 4.125% convertible subordinated notes due April 15, 2012 (the "Notes"). We pay interest on the Notes on April 15 and October 15 of each year. We have previously engaged in repurchase transactions of our Notes and may enter into similar transactions in the future depending on market conditions, our cash position and other factors.

In February 2009, we entered into an amendment to our existing credit agreement with HSBC Bank USA, National Association ("HSBC"), as administrative agent, and the lenders named therein (as amended, the "Credit Agreement"). As part of the amendment, we reduced the amount of the revolving credit facility, modified certain existing covenants and added certain new covenants. As amended, the Credit Agreement provides for revolving credit borrowings of up to \$30.0 million. The Credit Agreement was amended effective March 27, 2009 to modify certain financial covenants, to provide for the cash collateralization of borrowings under the Credit Agreement, and to permit the acquisition of the 80.1% noncontrolling interest in Fluens Corporation ("Fluens"). The annual interest rate under the Credit Agreement is a floating rate equal to the prime rate of the agent bank plus 2.0%. A LIBOR-based interest rate option is also provided. Borrowings may be used for general corporate purposes, including working capital requirements, as well as permitted acquisitions. The Credit Agreement contains certain restrictive covenants which include the maintenance of minimum cash balances and limitations with respect to incurrence of indebtedness, the payment of dividends, long-term leases, investments, mergers, acquisitions, consolidations and sales of assets. In addition, under the Credit Agreement, we are required to satisfy certain financial tests, including minimum profitability levels. As of the effective date of the amendment, we were in compliance with all covenants of the Credit Agreement. Substantially all of our assets and those of our material domestic subsidiaries, other than real estate, have been pledged to secure our obligations under the Credit Agreement. The revolving credit facility under the Credit Agreement expires on March 31, 2012. In the first quarter of 2009, we recognized an expense of \$0.2 million representing the amount of deferred financing fees equal to the portion of the revolving credit facility which was terminated in connection with the amendment, which is included in other expense, net. We also capitalized \$0.1 million in deferred financing fees that we incurred in connection with the February 2009 amendment. There were no borrowings outstanding as of March 31, 2009 under the Credit Agreement, and no borrowings outstanding as of or December 31, 2008 under the prior credit agreement. Letters of credit outstanding at March 31, 2009 and December 31, 2008 totaled approximately \$0.5 million and \$0.4 million, respectively. We recorded interest expense associated with the Credit Agreement during the three months ended March 31, 2009 and 2008 of approximately \$0.1 million in each period.

We believe that existing cash balances together with cash generated from operations and amounts available under the Credit Agreement will be sufficient to meet our projected working capital and other cash flow requirements for the next twelve months, as well as our contractual obligations. We believe we will be able to meet our obligation to repay the \$105.6 million outstanding Notes that mature on April 15, 2012 through a combination of conversion of the notes outstanding, refinancing, cash generated from operations, and other means.

In 2006, we invested \$0.5 million to purchase 19.9% of the common stock of Fluens Corporation ("Fluens"). Approximately 31% of Fluens is owned by one of our Senior Vice Presidents. Veeco and Fluens have jointly developed a next-generation process for high-rate deposition of aluminum oxide for data storage applications.

In April 2009, we entered into a letter of intent with the other stockholders of Fluens to purchase the remaining 80.1% of the outstanding stock of Fluens for \$1.5 million plus an earnout. We expect to close this acquisition during the second quarter of 2009. The \$1.5 million is expected to be paid in equal quarterly installments of \$0.5 million beginning in the second quarter of 2009. In addition, a \$0.2 million earnout is expected to be paid in the second quarter of 2009.

## **Contractual Obligations**

Except for the \$9.6 million earn-out payment related to the Mill Lane acquisition, which we made in the first quarter of 2009, and the decline in our purchase commitments from \$27.7 million at December 31, 2008 to \$19.1 million at March 31, 2009, there have been no significant changes to our “Contractual Obligations” table in Part II, Item 7, “Management’s Discussion and Analysis of Financial Condition and Results of Operations” of our 2008 Annual Report on Form 10-K.

## **Application of Critical Accounting Policies**

*General:* Our discussion and analysis of our financial condition and results of operations are based upon our Consolidated Financial Statements, which have been prepared in accordance with accounting principles generally accepted in the United States. The preparation of these financial statements requires us to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses. Management continually monitors and evaluates its estimates and judgments, including those related to bad debts, inventories, intangible and other long-lived assets, income taxes, warranty obligations, restructuring costs, and contingent liabilities, including potential litigation. Management bases its estimates and judgments on historical experience and on various other factors that are believed to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions. We consider certain accounting policies related to revenue recognition, the valuation of inventories, the impairment of goodwill and indefinite-lived intangible assets, the impairment of long-lived assets, warranty costs, the accounting for income taxes, and share-based compensation to be critical policies due to the estimation processes involved in each.

*Revenue Recognition:* We recognize revenue based on guidance provided in Securities and Exchange Commission Staff Accounting Bulletin No. 104, *Revenue Recognition*. Our revenue transactions include sales of products under multiple-element arrangements. Revenue under these arrangements is allocated to each element based upon its estimated fair market value, in accordance with the provisions of Emerging Issues Task Force (“EITF”) 00-21, *Revenue Arrangements with Multiple Deliverables*.

We consider a broad array of facts and circumstances when evaluating each of our sales arrangements in determining when to recognize revenue, including specific terms of the purchase order, contractual obligations to the customer, the complexity of the customer’s post delivery acceptance provisions, customer creditworthiness and the installation process. Revenue is recognized when persuasive evidence of an arrangement exists, the sales price is fixed or determinable, collectibility is reasonably assured and no uncertainties exist regarding customer acceptance. For transactions on which we recognize systems revenue, either at the time of shipment or delivery, our contractual arrangements with customers do not contain provisions for right of return or forfeiture, refund or other purchase price concessions. Sales arrangements are reviewed on a case-by-case basis; however, our products generally fall into one of two categories; either instruments or systems, for which we have established revenue recognition protocols as described below.

**Instruments** - Standard products produced according to our published specifications, principally metrology instruments sold typically to universities, research facilities and scientific centers and in general industrial applications where installation is inconsequential or perfunctory and no substantive customer acceptance provisions exist, revenue is recognized when title and risk of loss pass to the customer, either at time of shipment or delivery. Acceptance of the product by the customer is based upon meeting standard published specifications. Customer acceptance provisions include initial setup at the customer site, performance of functional test procedures and calibration testing of the basic features and functionality of the product. These provisions are a replication of the testing performed in our facilities prior to shipment. The skills and equipment required to complete installation of such instruments are not specialized and are readily available in the market and are often performed by distributors or representative organizations.

**Systems** - Process equipment systems and certain metrology systems, which are sold to manufacturers in the LED, solar, data storage and semiconductor industries and are used in manufacturing facilities and commercial production environments typically include process acceptance criteria based upon Veeco and/or customer specifications.

We are generally required to install these products and demonstrate compliance with acceptance tests at the customer's facility. Generally, based upon the terms of the sales arrangement, these products are sold with a retention (typically 10% to 20% of the sales contract value) which is payable by the customer when installation and field acceptance is completed. Such installations are not considered complex and are not deemed essential to the functionality of the equipment because they do not involve significant changes to the features or capabilities of the equipment or involve building complex interfaces or connections. Installation normally represents only 2% - 4% of the fair value of the sales contract. Sales arrangements for these systems are accounted for in accordance with EITF 00-21, as the Company bifurcates transactions into separate units of accounting or elements based on objective evidence of fair value. The two elements are the system and installation of the system. The amount of revenue allocated to each element is based upon its relative fair value. The price charged when the system or installation service is sold separately generally determines fair value. The value of the installation service is based upon the fair value of the service performed, including labor, which is based upon the estimated time to complete the installation at hourly rates, and material components. We recognize revenue for the system or delivered element since the delivered item has value to the customer on a standalone basis, there is objective and reliable evidence of the fair value of the undelivered item ( *i.e.*, the installation service) and delivery or performance of the undelivered item is considered probable and substantially in our control, based on our historical experience. The value of the undelivered element is the greater of the fair value of the installation or the portion of the sales price that will not be received until the installation is completed ( *i.e.*, the retention amount). System revenue is generally recognized upon shipment or delivery provided title and risk of loss has passed to the customer. Revenue from installation services is recognized at the time acceptance is received from the customer. If the arrangement does not meet all the above criteria, the entire amount of the sales arrangement is deferred until the criteria have been met or all elements have been delivered to the customer or been completed.

For new products, new applications of existing products, or for products with substantive customer acceptance provisions where performance cannot be fully assessed prior to meeting customer specifications at the customer site, revenue is recognized upon completion of installation and receipt of final customer acceptance. Since title to goods generally passes to the customer upon shipment or delivery and 80% to 90% of the contract amount becomes payable at that time, inventory is relieved and accounts receivable is recognized for the amount billed at the time of shipment. The profit on the amount billed for these transactions is deferred and recognized as deferred profit in the accompanying Consolidated Balance Sheets.

In Japan, generally where our contractual terms with customers specify risk of loss and title transfers upon customer acceptance, revenue is recognized and the customer is billed upon receipt of written customer acceptance.

Revenue related to maintenance and service contracts is recognized ratably over the applicable contract term. Component and spare part revenue is recognized at the time of shipment or delivery in accordance with the terms of the applicable sales arrangement.

*Inventory Valuation:* Inventories are stated at the lower of cost (principally first-in, first-out method) or market. Management evaluates the need to record adjustments for impairment of inventory on a quarterly basis. Our policy is to assess the valuation of all inventories, including raw materials, work-in-process, finished goods, and spare parts and other service inventory. Obsolete inventory or inventory in excess of management's estimated usage for the next 12 month's requirements is written-down to its estimated market value, if less than its cost. Inherent in the estimates of market value are management's estimates related to our future manufacturing schedules, customer demand, technological and/or market obsolescence, possible alternative uses, and ultimate realization of excess inventory.

*Goodwill and Indefinite-Lived Intangible Asset Impairment:* The Company accounts for goodwill and intangible assets with indefinite useful lives in accordance with SFAS No. 142, *Goodwill and Other Intangible Assets* ("SFAS 142"), which states that goodwill and intangible assets with indefinite useful lives should not be amortized, but instead tested for impairment at least annually at the reporting unit level. Our policy is to perform this annual impairment test in the fourth quarter of each fiscal year or more frequently if impairment indicators arise. Impairment indicators include, among other conditions, cash flow deficits, a historical or anticipated decline in revenue or operating profit, adverse legal or regulatory developments, and a material decrease in the fair value of some or all of the assets.

Pursuant to SFAS 142 we are required to determine if it is appropriate to use the operating segment as defined under SFAS No. 131, *Disclosures about Segments of an Enterprise and Related Information* ("SFAS 131") as the reporting unit, or one level below the operating segment, depending on whether certain criteria are met. We have identified four reporting units that are required to be reviewed for impairment. The reporting units are Data Storage Process Equipment, LED & Solar Process Equipment, AFM and Optical Metrology.

AFM and Optical Metrology comprise the Metrology operating segment. In identifying the reporting units management considered the economic characteristics of operating segments including the products and services provided, production processes, types or classes of customer and product distribution.

We perform this impairment test by first comparing the fair value of our reporting units to their respective carrying amount. When determining the estimated fair value of a reporting unit, we utilize a discounted future cash flow approach since reported quoted market prices are not available for our reporting units. Developing the estimate of the discounted future cash flow requires significant judgment and projections of future financial performance. The key assumptions used in developing the discounted future cash flows are the projection of future revenues and expenses, working capital requirements, residual growth rates and the weighted average cost of capital. In developing our financial projections, we consider historical data, current internal estimates and market growth trends. Changes to any of these assumptions could materially change the fair value of the reporting unit. We reconcile the aggregate fair value of our reporting units to the Company's adjusted market capitalization as a supporting calculation. The adjusted market capitalization is calculated by multiplying the average share price of our common stock for the last ten trading days prior to the measurement date by the number of outstanding common shares and adding a control premium.

If the carrying value of the reporting units exceed the fair value we would then compare the implied fair value of our goodwill to the carrying amount in order to determine the amount of the impairment, if any.

*Definite-Lived Intangible and Long-Lived Asset Impairment:* Long-lived assets, such as property, plant, and equipment, and intangible assets with definite useful lives, are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. Impairment indicators include, among other conditions, cash flow deficits, a historical or anticipated decline in revenue or operating profit, adverse legal or regulatory developments, and a material decrease in the fair value of some or all of the assets. Assets are grouped at the lowest level for which there are identifiable cash flows that are largely independent of the cash flows generated by other asset groups. Recoverability of assets to be held and used is measured by a comparison of the carrying amount of an asset to the estimated undiscounted future cash flows expected to be generated by the asset. If the carrying amount of an asset exceeds its estimated future cash flows, an impairment charge would be recognized in the amount by which the carrying amount of the asset exceeds the fair value of the asset.

*Fair Value Measurements:* We implemented the guidance in Statement of Financial Accounting Standards No. 157, *Fair Value Measurements* ("SFAS 157") for our non-financial assets and non-financial liabilities as of January 1, 2009. SFAS 157 requires that we disclose the type of inputs we use to value our assets and liabilities, based on three categories of inputs as defined in SFAS 157. Level 1 inputs are quoted, unadjusted prices in active markets for identical assets or liabilities that the company has the ability to access at the measurement date. Level 2 inputs are inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly, such as quoted prices for similar assets or liabilities. Level 3 inputs are unobservable inputs for the asset or liability. Unobservable inputs are used to measure fair value to the extent that observable inputs are not available, thereby allowing for situations in which there is little, if any, market activity for the asset or liability at the measurement date. The requirements of SFAS 157 applies to our long-lived assets, goodwill, and intangible assets. We use Level 3 inputs to value all of such assets, and the methodology we use to value such assets has not changed since December 31, 2008.

*Warranty Costs:* We estimate the costs that may be incurred under the warranty we provide and record a liability in the amount of such costs at the time the related revenue is recognized. Estimated warranty costs are determined by analyzing specific product and historical configuration statistics and regional warranty support costs. Our warranty obligation is affected by product failure rates, material usage, and labor costs incurred in correcting product failures during the warranty period. Unforeseen component failures or exceptional component performance can also result in changes to warranty costs. If actual warranty costs differ substantially from our estimates, revisions to the estimated warranty liability would be required.

*Income Taxes:* As part of the process of preparing our Consolidated Financial Statements, we are required to estimate our income taxes in each of the jurisdictions in which we operate. This process involves estimating the actual current tax expense, together with assessing temporary differences resulting from differing treatment of items for tax and accounting purposes. These differences result in deferred tax assets and liabilities, which are included within our Consolidated Balance Sheets. The carrying value of our deferred tax assets is adjusted by a valuation allowance to recognize the extent to which the future tax benefits will be recognized on a more likely than not basis. Our net deferred tax assets consist primarily of net operating loss and tax credit carry forwards, and timing differences between the book and tax treatment of inventory, acquired intangible assets and other asset valuations. Realization of these net deferred tax assets is dependent upon our ability to generate future taxable income.

We record valuation allowances in order to reduce our deferred tax assets to the amount expected to be realized. In assessing the adequacy of recorded valuation allowances, we consider a variety of factors, including the scheduled reversal of deferred tax liabilities, future taxable income, and prudent and feasible tax planning strategies. Under SFAS No. 109, factors such as current and previous operating losses are given significantly greater weight than the outlook for future profitability in determining the deferred tax asset carrying value.

At March 31, 2009, we had a valuation allowance of approximately \$86.4 million against substantially all of our domestic net deferred tax assets, which consist of net operating loss and tax credit carry forwards, as well as temporary deductible differences. If we are able to realize part or all of the domestic deferred tax assets in future periods, we will reduce our provision for income taxes with a release of the valuation allowance in an amount that corresponds with the income tax liability generated.

Financial Accounting Standards Board (“FASB”) Interpretation No. 48, *Accounting for Uncertainty in Income Taxes, an interpretation of FASB Statement 109* (“FIN 48”) addresses the determination of how tax benefits claimed or expected to be claimed on a tax return should be recorded in the financial statements. Under FIN 48, we must recognize the tax benefit from an uncertain tax position only if it is more likely than not that the tax position will be sustained on examination by the taxing authorities, based on the technical merits of the position. The tax benefits recognized in the financial statements from such uncertain tax positions are measured based on the largest benefit that has a greater than fifty percent likelihood of being realized upon ultimate resolution. We had approximately \$1.0 million of unrecognized tax benefits at March 31, 2009 and December 31, 2008, which predominantly relate to positions taken on our foreign tax returns and all of which represent the amount of unrecognized tax benefits that, if recognized, would favorably impact the effective income tax rate in future periods.

*Share-Based Compensation:* Share-based compensation cost is measured at the grant date, based on the fair value of the award, and is recognized as expense over the employee requisite service period. In order to determine the fair value of stock options on the date of grant, we apply the Black-Scholes option-pricing model. Inherent in the model are assumptions related to risk-free interest rate, dividend yield, expected stock-price volatility, and option life.

The risk-free rate assumed in valuing the options is based on the U.S. Treasury yield curve in effect at the time of grant for the expected term of the option. The dividend yield assumption is based on the Company’s historical and future expectation of dividend payouts. While the risk-free interest rate and dividend yield are less subjective assumptions, typically based on factual data derived from public sources, the expected stock-price volatility and option life assumptions require a level of judgment which make them critical accounting estimates.

We use an expected stock-price volatility assumption that is a combination of both historical volatility, calculated based on the daily closing prices of our common stock over a period equal to the expected term of the option and implied volatility, utilizing market data of actively traded options on our common stock, which are obtained from public data sources. We believe that the historical volatility of the price of our common stock over the expected term of the option is a strong indicator of the expected future volatility and that implied volatility takes into consideration market expectations of how future volatility will differ from historical volatility. Accordingly, we believe a combination of both historical and implied volatility provides the best estimate of the future volatility of the market price of our common stock.

The expected term, representing the period of time that options granted are expected to be outstanding, is estimated using a lattice-based model incorporating historical post vest exercise and employee termination behavior.

We estimate forfeitures using its historical experience, which is adjusted over the requisite service period based on the extent to which actual forfeitures differ, or are expected to differ, from such estimates. Because of the significant amount of judgment used in these calculations, it is reasonably likely that circumstances may cause the estimate to change.

With regard to the weighted-average option life assumption, we consider the exercise behavior of past grants and model the pattern of aggregate exercises.

## Recent Accounting Pronouncements

*Convertible debt:* In May 2008, the FASB issued FASB Staff Position No. APB 14-1, *Accounting for Convertible Debt Instruments That May Be Settled in Cash upon Conversion (Including Partial Cash Settlement)* (“FSP APB 14-1”). We implemented FSP APB 14-1 as of January 1, 2009 and have applied it retrospectively to all periods presented, as required. FSP APB 14-1 requires issuers of convertible debt that can be settled in cash to separately account for ( *i.e.*, bifurcate) a portion of the debt associated with the conversion feature and reclassify this portion to stockholders’ equity. The liability portion, which represents the fair value of the debt without the conversion feature, is accreted to its face value over the life of the debt using the effective interest method by amortizing the discount between the face amount and the fair value. The amortization is recorded as interest expense. The Notes are subject to FSP APB 14-1 since they may be settled in cash upon conversion. Thus, as a result of the adoption of FSP APB 14-1, we reclassified approximately \$16.3 million from long-term debt to additional paid-in capital effective as of the date of issuance of the Notes. This reclassification created a \$16.3 million discount on the debt that will be amortized over the remaining life of the Notes, which will be through April 15, 2012. The reclassification generated a \$6.7 million deferred tax liability, which we offset with a corresponding decrease of the valuation allowance by the same amount. FSP APB 14-1 requires that we present prior periods as if the guidance was in effect as of the date of issuance. Thus, we have presented all financial data for prior periods in this report as if we had reclassified the \$16.3 million and began amortizing the resultant debt discount in April 2007.

During the fourth quarter of 2008, we repurchased an aggregate principal amount of \$12.2 million of the Notes for \$7.2 million in cash, of which \$7.1 million related to principal and \$0.1 million related to accrued interest, reducing the amount outstanding from \$117.8 million to \$105.6 million. A gross gain of approximately \$5.1 million was recorded on these repurchases offset by the write-off of approximately \$0.1 million of unamortized deferred financing costs associated with the Notes, for a net gain of approximately \$5.0 million. Such net gain was reduced to \$3.8 million upon the adoption of FSP APB 14-1, which required that the gain be calculated based on the fair value of the portion repurchased as of the date bought back. The fair value approximated the carrying value net of the unamortized discount on the portion repurchased. The difference of approximately \$1.2 million between the fair value and the amount paid was recorded as a reduction in the gain originally reported, which increased the accumulated deficit as of December 31, 2008 by that amount.

For the three months ended March 31, 2009 and 2008, respectively, we recorded approximately \$0.7 million of additional interest expense in each period resulting from the amortization of the debt discount. This additional interest expense did not require the use of cash. The retrospective application of FSP APB 14-1 to the results for the three months ended March 31, 2008 increased the net loss attributable to Veeco in that period from (\$1,583) to (\$2,296) and increased the net loss per share attributable to Veeco from (\$0.05) to (\$0.07).

The total effect on equity as of the date of adoption on January 1, 2009 was a net increase of \$10.3 million, comprised of an increase in additional paid-in capital of \$16.3 million and an increase in the accumulated deficit of \$6.0 million. The \$6.0 million is comprised of \$2.9 million and \$1.9 million in amortization of the debt discount for 2008 and 2007, respectively, as well as the \$1.2 million reduction in the gain that was recorded on the November 2008 repurchases.

*Noncontrolling Interest:* In December 2007, the FASB issued Statement of Financial Accounting Standards No. 160, *Noncontrolling Interests in Consolidated Financial Statements — an Amendment of ARB No. 51* (“SFAS 160”). The purpose of SFAS 160 is to improve the relevance, comparability, and transparency of the financial information that a reporting entity provides in its consolidated financial statements. The most significant provisions of this statement result in changes to the presentation of noncontrolling interests in the consolidated financial statements. We implemented SFAS 160 as of January 1, 2009. The adoption of this statement impacted the manner in which we present noncontrolling interests for all periods included in this report, but did not impact our consolidated financial position or results of operations.

### Item 3. Quantitative and Qualitative Disclosures About Market Risk.

Our net sales to foreign customers represented approximately 68.2% of our total net sales for the three months ended March 31, 2009, and 67.7% for the comparable 2008 period. We expect that net sales to foreign customers will continue to represent a large percentage of our total net sales. Our net sales denominated in foreign currencies represented approximately 14.4% of our total net sales for the three months ended March 31, 2009, and 16.6% for the comparable 2008 period.

The condensed consolidated results of operations for the three months ended March 31, 2009 include aggregate foreign currency losses of approximately \$1.3 million, which were net of gains of approximately \$0.2 million related to forward contracts. For the three months ended March 31, 2008, the results include aggregate net foreign currency losses of approximately \$0.1 million, which included losses of approximately \$0.3 million related to forward contracts. These amounts were recognized and included in other expense, net.

We are exposed to financial market risks, including changes in foreign currency exchange rates. The changes in currency exchange rates that have the largest impact on translating our international operating profit are the Japanese Yen and the Euro. We use derivative financial instruments to mitigate these risks. We do not use derivative financial instruments for speculative or trading purposes. We generally enter into monthly forward contracts to reduce the effect of fluctuating foreign currencies on short-term foreign currency-denominated intercompany transactions and other known currency exposures. The weighted average notional amount of derivative contracts outstanding during the three months ended March 31, 2009 was approximately \$4.8 million.

As of March 31, 2009, approximately \$0.1 million of gains related to forward contracts were included in prepaid and other current assets, and cash in an amount equivalent to such gains was received in April 2009. As of December 31, 2008, approximately \$0.9 million of losses related to forward contracts were included in accrued expenses and subsequently paid in January 2009. Monthly forward contracts with a total notional amount of \$4.7 million were entered into in March 2009 and will be settled in April 2009. The fair value of the contracts at inception was zero, which did not significantly change at March 31, 2009.

We believe that based upon our hedging program, a 10% change in foreign exchange rates would have an immaterial impact on the consolidated results of operations. We believe that this quantitative measure has inherent limitations because, as discussed in the first paragraph of this section, it does not take into account any governmental actions or changes in either customer purchasing patterns or our financing and operating strategies.

Assuming first quarter 2009 variable debt and investment levels, the effect of a one-point change in interest rates would not have a material effect on net interest expense.

#### **Item 4. Controls and Procedures.**

Our senior management is responsible for establishing and maintaining a system of disclosure controls and procedures (as defined in Rule 13a-15 and 15d-15 under the Securities Exchange Act of 1934 (the "Exchange Act")) designed to ensure that information required to be disclosed by us in the reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission's rules and forms. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by an issuer in the reports that it files or submits under the Exchange Act is accumulated and communicated to the issuer's management, including its principal executive officer or officers and principal financial officer or officers, or persons performing similar functions, as appropriate to allow timely decisions regarding required disclosure.

We have evaluated the effectiveness of the design and operation of our disclosure controls and procedures under the supervision of and with the participation of management, including the chief executive officer and chief financial officer, as of the end of the period covered by this report. Based on that evaluation, our chief executive officer and our chief financial officer concluded that our disclosure controls and procedures are effective to ensure that information required to be disclosed by us in reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in Securities and Exchange Commission rules and forms and is accumulated and communicated to our management, including our principal executive officer and principal financial officer, or persons performing similar functions, as appropriate to allow timely decisions regarding required disclosure.

We have implemented company-wide integrated applications software. We completed the conversion to this platform in all of our business locations by the first quarter of 2009. As a result of this company-wide integrated software, certain changes have been made to our internal controls, which management believes will strengthen our internal control structure. There have been no other significant changes in our internal controls or other factors during the fiscal quarter ended March 31, 2009 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

We are involved in various legal proceedings arising in the normal course of our business. We do not believe that the ultimate resolution of these matters will have a material adverse effect on our consolidated financial position, results of operations or cash flows.

### Item 1A. Risk Factors.

Information regarding risk factors appears in the “Safe Harbor Statement” at the beginning of this Quarterly Report on Form 10-Q and in Part I — Item 1A of our Annual Report on Form 10-K for the year ended December 31, 2008. There have been no material changes from the risk factors previously disclosed in our Annual Report on Form 10-K.

### Item 6. Exhibits.

Unless otherwise indicated, each of the following exhibits has been previously filed with the SEC by the Company under File No. 0-16244.

<u>Number</u>	<u>Description</u>	<u>Incorporated by Reference to the Following Document:</u>
10.1	Amendment No. 2 dated January 22, 2009 to Veeco Instruments Inc. Amended and Restated 2000 Stock Incentive Plan.	Annual Report on Form 10-K for the year ended December 31, 2008, Exhibit 10.41
10.2	Second Amendment dated as of February 27, 2009 (effective December 31, 2008) to the Credit Agreement dated August 20, 2007 among Veeco Instruments Inc., HSBC Bank USA, National Association, as administrative agent, and the lenders named therein.	Annual Report on Form 10-K for the year ended December 31, 2008, Exhibit 10.42
10.3	Third Amendment dated as of May 7, 2009 (effective March 27, 2009) to the Credit Agreement dated August 20, 2007 among Veeco Instruments Inc., HSBC Bank USA, National Association, as administrative agent, and the lenders named therein.	*
31.1	Certification of Chief Executive Officer pursuant to Rule 13a—14 (a) or Rule 15d—14(a) of the Securities and Exchange Act of 1934.	*
31.2	Certification of Chief Financial Officer pursuant to Rule 13a—14 (a) or Rule 15d—14(a) of the Securities and Exchange Act of 1934.	*
32.1	Certification of Chief Executive Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.	*
32.2	Certification of Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.	*

\* Filed herewith

## 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.

Date: May 7, 2009

Veeco Instruments Inc.

By: /s/ JOHN R. PEELER  
John R. Peeler  
*Chief Executive Officer*

By: /s/ JOHN F. REIN, JR.  
John F. Rein, Jr.  
*Executive Vice President and Chief Financial Officer*

## INDEX TO EXHIBITS

Unless otherwise indicated, each of the following exhibits has been previously filed with the Securities and Exchange Commission by the Company under File No. 0-16244.

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32.2	Certification of Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.	*

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\* Filed herewith

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**THIRD AMENDMENT AND CONSENT TO CREDIT AGREEMENT**

**THIRD AMENDMENT AND CONSENT**, dated as of May 7, 2009, and effective as of March 27, 2009, (this “Amendment and Consent”) to the Credit Agreement dated as of August 20, 2007 (as amended by the First Amendment to Credit Agreement, dated as of February 25, 2008 and the Second Amendment to Credit Agreement, dated as of February 27, 2009, the “Credit Agreement”) by and among **VEECO INSTRUMENTS INC.**, a Delaware corporation (the “Company”), the Lenders party thereto and **HSBC BANK USA, NATIONAL ASSOCIATION**, a national banking association, as Administrative Agent for the Lenders.

**WHEREAS**, the Company has requested that the Lenders amend certain provisions of the Credit Agreement and consent to the acquisition by Veeco Process Equipment Inc. of the stock of Fluens Corporation, and the Lenders have agreed to amend such provisions of the Credit Agreement and grant such consent, subject to the terms and conditions set forth herein;

**NOW, THEREFORE**, in consideration of the premises and of the mutual agreements herein contained, the parties hereto agree as follows:

**1. Amendments.**

a. The definition of the term “Loan Documents” in Section 1.01 of the Credit Agreement is hereby amended and restated in its entirety to provide as follows:

“Loan Documents” shall mean, collectively, this Agreement, the Notes, the Guaranties, the Security Agreement, the Hedging Agreements (but only to the extent that such Hedging Agreements are between the Company and a Lender and relate to the Company’s hedging of interest rate exposure under this Agreement), the Pledge Agreements, the Account Pledge Agreement and each other agreement executed in connection with the transactions contemplated hereby or thereby, as each of the same may hereafter be amended, restated, supplemented or otherwise modified from time to time.

b. Section 1.01 of the Credit Agreement is hereby amended to add the following definition in its appropriate alphabetical order:

“Account Pledge Agreement” shall mean the Account Pledge Agreement, dated as of May 7, 2009, between the Company and the Administrative Agent, as the same may hereafter be further amended, restated, supplemented or otherwise modified from time to time.

c. Section 5.02 of the Credit Agreement is hereby amended to add the following new subsection “(d)” immediately following subsection “(c)” thereof:

“(d) **Cash Collateral.** The Company shall have deposited with the Administrative Agent, Cash Collateral in an amount equal to the Aggregate Outstandings (after giving effect to the Loan requested or the requested issuance, amendment, renewal or extension of a Letter of Credit).”

d. Article VI of the Credit Agreement is hereby amended to add a new Section 6.16 at the end thereof as follows:

“ **SECTION 6.16. Cash Collateral** . The Company shall, at all times required by the Lenders, maintain with, and pledge to, the Administrative Agent for the ratable benefit of the Lenders, Cash Collateral in an amount equal to or greater than the Aggregate Outstandings, pursuant to the Account Pledge Agreement.”

e. Section 7.13(e) of the Credit Agreement is hereby amended and restated in its entirety to provide as follows:

“(e) Consolidated EBITA . Permit Consolidated EBITA to exceed (i) (\$11,692,000), for the fiscal quarter ending March 31, 2009, (ii) (\$19,807,000), on a cumulative basis for the two fiscal quarters ending June 30, 2009, (iii) (\$21,899,000), on a cumulative basis for the three fiscal quarters ending September 30, 2009 or (iv) (\$14,710,000), for the fiscal year ending December 31, 2009.”

## **2. Consent**

The Company acknowledges and agrees that a Compliance Period is not currently in effect and, as a result thereof, the Required Lenders must consent to the acquisition by Veeco Process Equipment Inc. of the stock of Fluens Corporation, a Massachusetts corporation as a Permitted Acquisition (the “Specified Acquisition”). In accordance with Section 7.06(d) of the Credit Agreement, the Required Lenders hereby consent to the consummation of the Specified Acquisition as a Permitted Acquisition, provided that (a) no Default or Event of Default has occurred and is then continuing at the time of, or will occur after giving effect to, such Acquisition and (b) such Acquisition otherwise satisfies the requirements of a “Permitted Acquisition” as defined in the Credit Agreement other than the requirement set forth in clause “(f)(ii)” thereof with respect to the ratio of Consolidated Senior Funded Debt to Consolidated EBITA.

## **3. Conditions to Effectiveness**

This Amendment and Consent shall become effective upon receipt by the Administrative Agent of: (a) this Amendment and Consent, duly executed by the Company and the Guarantors, (b) the Account Pledge Agreement, duly executed by the Company, and Cash Collateral in an amount equal to the Aggregate Outstandings as of the date hereof, (c) executed consents from the Lenders authorizing the Administrative Agent to execute this Amendment and Consent on behalf of the Lenders (the “Consent”), and (d) an amendment fee for each Lender providing its Consent to the Administrative Agent on or before the time that the Administrative Agent shall sign this Amendment and Consent on behalf of the Required Lenders, in an amount equal to ten (10) basis points of such Lender’s Revolving Credit Commitment.

## **4. Miscellaneous**

Capitalized terms used herein and not otherwise defined herein shall have the same meanings as defined in the Credit Agreement.

Except as expressly amended hereby, the Credit Agreement shall remain in full force and effect in accordance with the original terms thereof.

The amendments set forth above are limited specifically to the matters set forth above and for the specific instances and purposes given and do not constitute directly or by implication a waiver or

amendment of any other provision of the Credit Agreement or a waiver of any Default or Event of Default, whether now existing or hereafter arising, which may occur or may have occurred.

The Company hereby (i) represents and warrants that (a) after giving effect to this Amendment and Consent, the representations and warranties made by the Company and each of its Subsidiaries pursuant to the Credit Agreement and the other Loan Documents to which each is a party are true and correct in all material respects as of the date hereof with the same effect as though such representations and warranties had been made on and as of such date, unless any such representation or warranty is as of a specific date, in which case, as of such date and (b) after giving effect to this Amendment and Consent, no Default or Event of Default has occurred and is continuing and (ii) confirms that the liens, heretofore granted, pledged and/or assigned to the Administrative Agent for the Lenders shall not be impaired, limited or affected in any manner whatsoever by reason of this Amendment and Consent.

The Company hereby further represents and warrants that the execution, delivery and performance by the Company of this Amendment and Consent and the Credit Agreement (as amended by this Amendment and Consent), (a) have been duly authorized by all requisite corporate action, (b) will not violate or require any consent (other than consents as have been made or obtained and which are in full force and effect) under (i) any provision of law applicable to the Company, any applicable rule or regulation of any Governmental Authority, or the Certificate of Incorporation or By-laws of the Company, (ii) any order of any court or other Governmental Authority binding on the Company or (iii) any agreement or instrument binding on the Company. Each of this Amendment and Consent and the Credit Agreement (as amended hereby), constitutes a legal, valid and binding obligation of the Company.

This Amendment and Consent may be executed in one or more counterparts, each of which shall constitute an original, but all of which when taken together shall constitute but one Amendment and Consent. This Amendment and Consent shall become effective when duly executed counterparts hereof which, when taken together, bear the signatures of each of the parties hereto shall have been delivered to the Administrative Agent.

This Amendment and Consent shall constitute a Loan Document.

This Amendment and Consent shall be governed by, and construed in accordance with, the laws of the State of New York.

[next page is signature page]

**IN WITNESS WHEREOF**, the Company and the Administrative Agent, as authorized on behalf of the Required Lenders, have caused this Amendment and Consent to be duly executed by their duly authorized officers, all as of the day and year first above written.

**HSBC BANK USA, NATIONAL  
ASSOCIATION**, as Administrative Agent

By: /s/ Christopher Mendelsohn

Name: Christopher Mendelsohn

Title: Senior Vice President

**VEECO INSTRUMENTS INC.**

By: /s/ John F. Rein, Jr.

Name: John F. Rein, Jr.

Title: Executive Vice President and Chief Financial Officer

The undersigned, not parties to the Credit Agreement but as “Guarantors” under the Guaranty and “Grantors” under the Security Agreement, hereby (a) accept and agree to the terms of the foregoing Amendment and Consent, (b) acknowledge and confirm that all terms and provisions contained in the Loan Documents to which they are a party are, and shall remain, in full force and effect in accordance with their respective terms, (c) reaffirm and ratify all of the representations and covenants contained in the Loan Documents to which they are a party, (d) represent, warrant and confirm the non-existence of any offsets, defenses and counterclaims to its obligations under the Loan Documents to which they are a party and (e) confirm that the liens, heretofore granted, pledged and/or assigned to the Administrative Agent for the Lenders shall not be impaired, limited or affected in any manner whatsoever by reason of this Amendment and Consent.

**VEECO COMPOUND SEMICONDUCTOR INC.**

**VEECO METROLOGY INC.**

**VEECO PROCESS EQUIPMENT INC.**

**VEECO APAC INC.**

**VEECO CORPORATE LLC**

**By: Veeco Metrology Inc., its Sole Member**

By: /s/ John F. Rein, Jr.

Name: John F. Rein, Jr.

Title: Vice President of each of the foregoing corporations

**CERTIFICATION PURSUANT TO  
RULE 13a – 14(a) or RULE 15d – 14(a)  
OF THE SECURITIES EXCHANGE ACT OF 1934**

I, John R. Peeler, certify that:

1. I have reviewed this quarterly report on Form 10-Q for the period ended March 31, 2009 of Veeco Instruments Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

/s/ JOHN R. PEELER

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John R. Peeler  
Chief Executive Officer  
Veeco Instruments Inc.  
May 7, 2009

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**CERTIFICATION PURSUANT TO  
RULE 13a – 14(a) or RULE 15d – 14(a)  
OF THE SECURITIES EXCHANGE ACT OF 1934**

I, John F. Rein, Jr., certify that:

1. I have reviewed this quarterly report on Form 10-Q for the period ended March 31, 2009 of Veeco Instruments Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

/s/ JOHN F. REIN, JR.

John F. Rein, Jr.  
Executive Vice President and Chief Financial Officer  
Veeco Instruments Inc.  
May 7, 2009

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

In connection with the Quarterly Report of Veeco Instruments Inc. (the "Company") on Form 10-Q for the period ended March 31, 2009 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, John R. Peeler, Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

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

/s/ JOHN R. PEELER

John R. Peeler  
Chief Executive Officer  
Veeco Instruments Inc.  
May 7, 2009

A signed original of this written statement required by Section 906 has been provided to Veeco Instruments Inc. and will be retained by Veeco Instruments Inc. and furnished to the Securities and Exchange Commission or its staff upon request.

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

In connection with the Quarterly Report of Veeco Instruments Inc. (the "Company") on Form 10-Q for the period ended March 31, 2009 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, John F. Rein, Jr., Executive Vice President and Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

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

/s/ JOHN F. REIN, JR.

John F. Rein, Jr.  
Executive Vice President and Chief Financial Officer  
Veeco Instruments Inc.  
May 7, 2009

A signed original of this written statement required by Section 906 has been provided to Veeco Instruments Inc. and will be retained by Veeco Instruments Inc. and furnished to the Securities and Exchange Commission or its staff upon request.

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