# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## FORM 8-K

## **CURRENT REPORT**

Pursuant to Section 13 OR 15(d) of The Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): August 8, 2008

## Axcelis Technologies, Inc.

(Exact name of registrant as specified in its charter)

**Delaware** (State or other jurisdiction of incorporation)

**000-30941** (Commission File Number)

34-1818596 (IRS Employer Identification No.)

108 Cherry Hill Drive, Beverly, Massachusetts

(Address of principal executive offices)

**01915** (Zip Code)

Registrant's telephone number, including area code: (978) 787-4000

(Former name or former address, if changed since last report.)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- o Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- o Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- o Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

## Item 2.02 Results of Operations and Financial Condition

On August 8, 2008, Axcelis Technologies, Inc. (the "Company") issued a press release regarding its financial results for the quarter ended June 30, 2008. The Company's press release is attached as Exhibit 99.1 to this Current Report on Form 8-K and incorporated by reference herein.

#### Item 9.01 Financial Statements and Exhibits

(c) Exhibits

Exhibit No.

99.1 Press Release dated August 8, 2008

Description

## SIGNATURE

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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 hereunto duly authorized.

Date: August 8, 2008 Axcelis Technologies, Inc.

By: /s/ STEPHEN G. BASSETT

Stephen G. Bassett Executive Vice President and Chief Financial Officer Exhibit No. 99.1

Press Release dated August 8, 2008

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**Exhibit Index** 

Company Contact: Maureen Hart Axcelis Technologies, Inc. Tel: +1 (978) 787 4266 Fax: +1 (978) 787 4275 maureen.hart@axcelis.com Investor Contact: Stephen Bassett Axcelis Technologies, Inc. Tel: +1 (978) 787 4000 Fax: +1 (978) 787 9133 investor.relations@axcelis.com Agency Contact: Heather Smith Loomis Group Tel: +1 (617) 309 8005 Fax: +1 (617) 638 0033 smithh@loomisgroup.com

## AXCELIS ANNOUNCES FINANCIAL RESULTS FOR SECOND QUARTER 2008

BEVERLY, Mass., August 8, 2008 (PRIME NEWSWIRE) — Axcelis Technologies, Inc. (Nasdaq:ACLS) today announced financial results for the second quarter ended June 30, 2008. The Company reported second quarter revenues of \$76.9 million, compared to \$84.9 million for the first quarter of 2008. Net loss for the second quarter was \$19.4 million, or \$0.19 per share. This compares to a net loss for the first quarter of 2008 of \$11.1 million, or \$0.11 per share. This net loss is greater than our guidance due to restructuring charges of \$3.0 million, or \$0.03 per share, as well as income contributions from SEN of \$1.0 million, or \$0.01 per share, less than SEN originally forecast. In the corresponding quarter for the previous year, the Company reported revenues of \$110.1 million, and net income of \$4.7 million, or \$0.05 per share.

Commenting on the Company's performance, Chairman and CEO Mary Puma said, "Revenues remain challenged by weak market conditions. We continue to reduce costs and optimize processes, and as a result implemented a significant restructuring during the quarter. At the same time, we remain focused on new product development and customer support. Recently, we shipped three additional Optima HDs as well as our first Optima XE single wafer high energy system. In addition, we launched the new Integra RS multi-chamber dry strip system and have already shipped two tools for use in memory manufacturing and 32/22nm development."

Puma continued, "In light of our confidentiality agreement with Sumitomo Heavy Industries (SHI) and TPG Capital, the Company will not comment on discussions with SHI. The Company does not plan to hold a quarterly earnings call this quarter."

#### Second Quarter Detail

## **Shipments and Margins**

Shipments for the second quarter, including aftermarket business, before provision for deferred revenue totaled \$67.9 million. Geographically, Axcelis' systems shipments were to: Asia, 46%; North America, 21%; and Europe, 33%. The ion implantation business accounted for 93% of total systems shipments in the second quarter. Gross margin for the second quarter was 35.2%.

#### **Orders and Backlog**

Orders received for the second quarter (new systems bookings and aftermarket) totaled \$62.6 million. New systems bookings, excluding aftermarket, amounted to \$24.3 million. Backlog plus

deferred systems revenue at quarter end was \$33.0 million. Backlog consists of systems orders (aftermarket orders are excluded) that are generally scheduled to ship within six months.

#### SEN Corporation, an SHI and Axcelis Company ("SEN")

Axcelis owns 50% of SEN, a Japanese company that is licensed by Axcelis to manufacture and sell certain implant products in Japan. SEN's revenue for the second quarter totaled \$48.6 million. Revenues in Japan are also challenged by weak market conditions.

## **Business Outlook**

Axcelis' financial outlook for the third quarter of 2008 includes revenues in the range of \$47 million to \$57 million. The Company also forecasts a third quarter loss per share in the range of \$0.21 to \$0.25. Axcelis assumes no responsibility to update guidance. Axcelis will only confirm or update guidance via a press release.

#### Safe Harbor Statement

This document contains forward-looking statements under the SEC safe harbor provisions. These statements, which include our guidance for future financial performance, are based on management's current expectations and should be viewed with caution. They are subject to various risks and uncertainties, many of which are outside the control of the Company, including the timing of orders and shipments, the conversion of orders to revenue in any particular quarter, or at all, our ability to implement successfully our profit plans, the continuing demand for semiconductor equipment, relative market growth, continuity of business relationships with and purchases by major customers, competitive pressure on sales and pricing, increases in material and other production costs that cannot be recouped in product pricing and global economic, political and financial conditions. These risks and other risk factors relating to Axcelis are described more fully in the most recent Form 10-K filed by Axcelis and in other documents filed from time to time with the Securities and Exchange Commission.

#### About Axcelis Technologies, Inc.

Axcelis Technologies, Inc., headquartered in Beverly, Massachusetts, provides innovative, high-productivity solutions for the semiconductor industry. Axcelis is dedicated to developing enabling process applications through the design, manufacture and complete life cycle support of ion implantation and cleaning systems. Axcelis also licenses its 50% owned joint venture, SEN Corporation, an SHI and Axcelis Company, to manufacture and sell certain implant products in Japan. The company's Internet address is: www.axcelis.com.

Current assets	December 31, 2007		
Cash and cash equivalents         \$ 59,551         \$           Restricted cash         14,221           Accounts receivable, net         178,855           Prepaid expenses and other current assets         17,551           Total current assets         322,111           Property, plant and equipment, net         66,352           Investment in SEN         140,044           Goodwill         42,115           Intangible assets         9,613           Other assets         3,33,31           Liabilities and stockholders' equity         \$           Current liabilities         \$           Accounts payable         \$         15,636           Accounts payable         \$         16,426           Warranty         3,931         1           Income taxes         757         Defenred revenue         14,518           Other current liabilities         6,579         1           Current protion of convertible subordinated debt         81,534           Total current liabilities         3,291           Convertible subordinated debt         -           Cong-term deferred revenue         3,291           Other long-term liabilities         5,290           Stockholders' equity         -			
Restricted cash         14,821           Accounts receivable, net         51,233           Inventories, net         178,855           Prepaid expenses and other current assets         322,111           Total current assets         322,111           Property, plant and equipment, net         140,044           Goodwill         42,115           Intensified assets         9,613           Other assets         35,313           Comeratian stockholders' equity         \$           Current liabilities         \$           Accounts payable         \$         15,636         \$           Accound compensation         16,426         \$           Warranty         39,31         1         1           Other current liabilities         6,579         5           Offered revenue         14,518         6           Other current liabilities         6,579         5           Conyertible subordinated debt         319,381         1           Toal current liabilities         5,290         5           Conyertible subordinated debt         3,291         5           Cong-term deferred revenue         3,291         5           Ong-term deferred revenue         3,291         5 <th></th>			
Accounts receivable, net         51,233           Inventories, net         178,855           Prepaid expenses and other current assets         322,111           Total current assets         322,111           Property, plant and equipment, net         66,352           Investment in SEN         140,044           Goodwill         42,115           Intangible assets         9,613           Other assets         35,313           Expectation of the second of the sec	83,877		
Prepaid expenses and other current assets	17,018		
Prepaid expenses and other current assets         17,551           Total current assets         322,111           Property, plant and equipment, net         66,352           Investment in SEN         140,044           Goodwill         42,115           Intangible assets         9,613           Other assets         35,313           \$ 615,548         \$           Liabilities and stockholders' equity         \$           Current liabilities         \$           Accounts payable         \$ 15,636         \$           Accrued compensation         16,426           Warranty         3,931         1           Income taxes         757         5           Deferred revenue         14,518         4           Other current liabilities         6,579         4           Current portion of convertible subordinated debt         -         -           Conyertible subordinated debt         -         -           Cong-term deferred revenue         3,291           Other long-term liabilities         5,290           Stockholders' equity         -         -           Preferred Stock         -         -           Common stock         103         481,596	76,067		
Total current assets         322,111           Property, plant and equipment, net         66,352           Investment in SEN         140,044           Goodwill         42,115           Intangible assets         9,613           Other assets         35,313           \$ 615,548         \$           Liabilities and stockholders' equity         ***           Current liabilities         ***           Accounts payable         \$ 15,636         \$           Accrued compensation         16,426         ***           Warranty         3,931         Income taxes         757           Deferred revenue         14,518         **           Other current liabilities         6,579         **           Current portion of convertible subordinated debt         81,534         **           Total current liabilities         139,381         **           Convertible subordinated debt         —         Convertible subordinated debt         —           Long-term deferred revenue         3,291         **           Other long-term liabilities         5,290         **           Stockholders' equity         —         Common stock         —           Common stock         103         ** <td>169,278</td>	169,278		
Property, plant and equipment, net         66,352           Investment in SEN         140,044           Goodwill         42,115           Intangible assets         9,613           Other assets         35,313           \$ 615,548         \$           Liabilities and stockholders' equity         ***           Current liabilities         ***           Accounts payable         \$ 15,636         \$           Accrued compensation         16,426         ***           Warranty         3,931         ***           Income taxes         757         **           Deferred revenue         14,518         ***           Other current liabilities         6,579         ***           Current portion of convertible subordinated debt         81,534         ***           Total current liabilities         139,381         ***           Convertible subordinated debt         —**         ***           Convertible subordinated debt         —**         **           Convertible subordinated debt         —**         **           Convertible subordinated debt         —**         **           Frefered Stock         —**         **           Common stock         103         *	32,442		
Investment in SEN         140,044           Goodwill         42,115           Intangible assets         9,613           Other assets         35,313           \$ 615,548         \$           Liabilities and stockholders' equity           Current liabilities           Accounts payable         \$ 15,636         \$           Accrued compensation         16,426         \$           Warranty         3,931         \$           Income taxes         757         \$           Deferred revenue         14,518         \$           Other current liabilities         6,579         \$           Current portion of convertible subordinated debt         381,534         \$           Total current liabilities         3,931         \$           Convertible subordinated debt         3,931         \$           Convertible subordinated debt         3,291         \$           Conjeterm deferred revenue         3,291         \$           Other long-term liabilities         5,290         \$           Stockholders' equity         -         -         -           Preferred Stock         -         -         -           Common stock         103 <td< td=""><td>378,682</td></td<>	378,682		
Goodwill         42,115           Intangible assets         9,613           Other assets         35,313           Liabilities and stockholders' equity         \$           Current liabilities           Accrued compensation         16,426           Warranty         3,931           Income taxes         757           Deferred revenue         14,518           Other current liabilities         6,579           Current portion of convertible subordinated debt         81,534           Total current liabilities         139,381           Convertible subordinated debt         -           Long-term deferred revenue         3,291           Other long-term liabilities         5,290           Stockholders' equity         -           Preferred Stock         -           Common stock         103           Additional paid-in capital         481,596           Treasury stock         (1,218)           Accumulated deficit         (32,293)	68,101		
Intangible assets         9,613           Other assets         35,313           Liabilities and stockholders' equity         Current liabilities           Accounts payable         \$ 15,636         \$           Accrued compensation         16,426         \$           Warranty         3,931         \$           Income taxes         757         \$           Deferred revenue         14,518         \$           Other current liabilities         6,579         \$           Current protion of convertible subordinated debt         81,534         \$           Convertible subordinated debt         3,931         \$           Convertible subordinated debt         3,931         \$           Conjecterm deferred revenue         3,291         \$           Other long-term liabilities         5,290         \$           Stockholders' equity         Preferred Stock         —         —           Preferred Stock         —         —         —           Common stock         103         4         4         5           Preferred Stock         —         —         —         —         —         —         —         —         —         —         —         —	132,911		
Other assets         35,313         3	42,115		
Liabilities and stockholders' equity         \$ 615,548         \$           Current liabilities         \$ 15,636         \$           Accounts payable         \$ 15,636         \$           Accrued compensation         16,426           Warranty         3,931           Income taxes         757           Deferred revenue         14,518           Other current liabilities         6,579           Current portion of convertible subordinated debt         81,534           Total current liabilities         139,381           Convertible subordinated debt         —           Long-term deferred revenue         3,291           Other long-term liabilities         5,290           Stockholders' equity         —           Preferred Stock         —           Common stock         103           Additional paid-in capital         481,596           Treasury stock         (1,218)           Accumulated deficit         (32,293)	10,925		
Liabilities and stockholders' equity         Current liabilities         Accounts payable       \$ 15,636 \$         Accrued compensation       16,426         Warranty       3,931         Income taxes       757         Deferred revenue       14,518         Other current liabilities       6,579         Current portion of convertible subordinated debt       81,534         Total current liabilities       139,381         Convertible subordinated debt       —         Long-term deferred revenue       3,291         Other long-term liabilities       5,290         Stockholders' equity       —         Preferred Stock       —         Common stock       103         Additional paid-in capital       481,596         Treasury stock       (1,218)         Accumulated deficit       (32,293)	37,195		
Current liabilities         Current liabilities           Accounts payable         \$ 15,636 \$           Accrued compensation         16,426           Warranty         3,931           Income taxes         757           Deferred revenue         14,518           Other current liabilities         6,579           Current portion of convertible subordinated debt         3139,381           Total current liabilities         139,381           Convertible subordinated debt         —           Long-term deferred revenue         3,291           Other long-term liabilities         5,290           Stockholders' equity         —           Preferred Stock         —           Common stock         103           Additional paid-in capital         481,596           Treasury stock         (1,218)           Accumulated deficit         (32,293)	669,929		
Accunts payable         \$ 15,636         \$           Accrued compensation         16,426         \$           Warranty         3,931         \$           Income taxes         757         \$           Deferred revenue         14,518         \$           Other current liabilities         6,579         \$           Current portion of convertible subordinated debt         81,534         \$           Convertible subordinated debt         —         \$           Long-term deferred revenue         3,291         \$           Other long-term liabilities         5,290         \$           Stockholders' equity         —         —           Preferred Stock         —         —           Common stock         103         —           Additional paid-in capital         481,596         —           Treasury stock         (1,218)         —           Accumulated deficit         (32,293)         —			
Accrued compensation       16,426         Warranty       3,931         Income taxes       757         Deferred revenue       14,518         Other current liabilities       6,579         Current portion of convertible subordinated debt       81,534         Total current liabilities       139,381         Convertible subordinated debt       —         Long-term deferred revenue       3,291         Other long-term liabilities       5,290         Stockholders' equity       —         Preferred Stock       —         Common stock       103         Additional paid-in capital       481,596         Treasury stock       (1,218)         Accumulated deficit       (32,293)			
Warranty       3,931         Income taxes       757         Deferred revenue       14,518         Other current liabilities       6,579         Current portion of convertible subordinated debt       81,534         Total current liabilities       139,381         Convertible subordinated debt       —         Long-term deferred revenue       3,291         Other long-term liabilities       5,290         Stockholders' equity       —         Preferred Stock       —         Common stock       103         Additional paid-in capital       481,596         Treasury stock       (1,218)         Accumulated deficit       (32,293)	27,054		
Income taxes         757           Deferred revenue         14,518           Other current liabilities         6,579           Current portion of convertible subordinated debt         81,534           Total current liabilities         139,381           Convertible subordinated debt         —           Long-term deferred revenue         3,291           Other long-term liabilities         5,290           Stockholders' equity         —           Preferred Stock         —           Common stock         103           Additional paid-in capital         481,596           Treasury stock         (1,218)           Accumulated deficit         (32,293)	17,003		
Deferred revenue14,518Other current liabilities6,579Current portion of convertible subordinated debt81,534Total current liabilities139,381Convertible subordinated debt—Long-term deferred revenue3,291Other long-term liabilities5,290Stockholders' equity—Preferred Stock—Common stock103Additional paid-in capital481,596Treasury stock(1,218)Accumulated deficit(32,293)	5,011		
Other current liabilities6,579Current portion of convertible subordinated debt81,534Total current liabilities139,381Convertible subordinated debt—Long-term deferred revenue3,291Other long-term liabilities5,290Stockholders' equity—Preferred Stock—Common stock103Additional paid-in capital481,596Treasury stock(1,218)Accumulated deficit(32,293)	531		
Current portion of convertible subordinated debt81,534Total current liabilities139,381Convertible subordinated debt—Long-term deferred revenue3,291Other long-term liabilities5,290Stockholders' equity—Preferred Stock—Common stock103Additional paid-in capital481,596Treasury stock(1,218)Accumulated deficit(32,293)	35,827		
Total current liabilities 139,381  Convertible subordinated debt — Long-term deferred revenue 3,291 Other long-term liabilities 5,290  Stockholders' equity Preferred Stock — Common stock 103 Additional paid-in capital 481,596 Treasury stock (1,218) Accumulated deficit (32,293)	8,577		
Convertible subordinated debt Long-term deferred revenue Other long-term liabilities Stockholders' equity Preferred Stock Common stock 103 Additional paid-in capital Treasury stock 1,218) Accumulated deficit  Convertible subordinated debt 3,291  5,290  Common stock (1,218) (32,293)	_		
Long-term deferred revenue3,291Other long-term liabilities5,290Stockholders' equity—Preferred Stock—Common stock103Additional paid-in capital481,596Treasury stock(1,218)Accumulated deficit(32,293)	94,003		
Other long-term liabilities 5,290  Stockholders' equity  Preferred Stock Common stock Common stock 103 Additional paid-in capital 481,596 Treasury stock (1,218) Accumulated deficit (32,293)	79,923		
Other long-term liabilities5,290Stockholders' equity-Preferred Stock-Common stock103Additional paid-in capital481,596Treasury stock(1,218)Accumulated deficit(32,293)	4,704		
Preferred Stock Common stock Additional paid-in capital Treasury stock Accumulated deficit	5,293		
Common stock103Additional paid-in capital481,596Treasury stock(1,218)Accumulated deficit(32,293)			
Additional paid-in capital  Treasury stock Accumulated deficit  481,596 (1,218) (32,293)	_		
Treasury stock (1,218) Accumulated deficit (32,293)	103		
Treasury stock (1,218) Accumulated deficit (32,293)	478,726		
Accumulated deficit (32,293)	(1,218)		
	(1,815)		
13,000	10,210		
467,586	486,006		
\$ 615,548 \$	669,929		

## Axcelis Technologies, Inc. Consolidated Statements of Operations In thousands, except per share amounts (Unaudited)

	Three Months June 30		Six Months e June 30	
	2008	2007	2008	2007
Revenue	76,889	110,073	161,783	207,599
Cost of revenue	49,799	66,483	105,477	122,759
Gross profit	27,090	43,590	56,306	84,840
Operating expenses				
Research and development	16,954	17,598	33,807	35,826
Sales and marketing	12,475	13,146	24,380	26,084
General and administrative	10,878	10,194	20,692	20,670
Amortization of intangible assets	656	656	1,312	1,312
Restructuring charges	3,017	_	3,068	_
	43,980	41,594	83,259	83,892
Income (loss) from operations	(16,890)	1,996	(26,953)	948
Other income (expense)				
Equity income (loss) of SEN	(133)	1,905	(132)	6,573
Interest income	391	1,146	1,081	2,600
Interest expense	(1,680)	(1,566)	(3,281)	(3,235)
Other-net	(767)	275	(449)	251

		(2,189)		1,760		(2,781)		6,189
Income (loss) before income taxes		(19,079)		3,756		(29,734)		7,137
		( -,,		-,		( - , - ,		, -
Income taxes (credits)		318		(988)		744		(280)
	•	(10 DOT)				(20.470)		
Net income (loss)	\$	(19,397)	\$	4,744	\$	(30,478)	\$	7,417
Not in some (less) nor share								
Net income (loss) per share	ф	(0.40)	ф	0.05	ф	(0.00)	ф	0.05
Basic	\$	(0.19)	\$	0.05	\$	(0.30)	\$	0.07
Diluted		(0.19)		0.05		(0.30)		0.07
Shares used in computing net income (loss) per share								
Basic		102,450		101,609		102,449		101,551
Diluted		102,450		102,503		102,449		102,463