

AXCELIS TECHNOLOGIES INC  
Form 8-K  
January 31, 2008

**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): **January 31, 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:

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- o Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
  
  - o 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))
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**Item 2.02 Results of Operations and Financial Condition**

On January 31, 2008, Axcelis Technologies, Inc. (the Company ) issued a press release regarding its financial results for the quarter ended December 31, 2007. 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

<b>Exhibit No.</b>	<b>Description</b>
99.1	Press Release dated January 31, 2008

**SIGNATURE**

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

Date: January 31, 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 January 31, 2008

**Exhibit Index**

4

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