

**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): **November 26, 2007**

**Axcelis Technologies, Inc.**

(Exact name of registrant as specified in 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:

- 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)
- Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

**Item 5.02 Departure of Directors or Certain Officers; Election of Directors; Appointment of Certain Officers; Compensatory Arrangements of Certain Officers**

**Resignation of Director.** On November 26, 2007, the Company received a letter from Michio Naruto, a director of the Company, dated November 22, 2007, in which Mr. Naruto resigned from the Board of Directors effective immediately. Mr. Naruto's resignation was a result of his decision to reduce his professional commitments.

**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: November 27, 2007

Axcelis Technologies, Inc.

By: /s/ Stephen G. Bassett  
Stephen G. Bassett  
Executive Vice President and Chief Financial Officer

