

AXCELIS TECHNOLOGIES INC

Form SC 13G/A

December 31, 2009

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

SCHEDULE 13G/A  
Under the Securities Exchange Act of 1934  
Amendment No. 1\*

Axcelis Technologies, Inc.  
(Name of Issuer)

Common  
(Title of Class of Securities)

054540109  
(CUSIP Number)

December 31, 2009  
(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

☒ Rule 13d-1(b)  
☐ Rule 13d-1(c)  
☐ Rule 13d-1(d)

\*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

CUSIP No. 054540109

1. Names of Reporting Persons.  
I.R.S. Identification Nos. of above persons (entities only).

Donald Smith & Co., Inc.  
13-2807845

2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a)  
(b) ☒

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3. SEC Use Only  
 .....  
 4. Citizenship or Place of Organization  
 A Delaware Corporation

|                                                                                  |                             |                   |
|----------------------------------------------------------------------------------|-----------------------------|-------------------|
| Number of<br>Shares<br>Beneficially<br>Owned by<br>Each Reporting<br>Person With | 5. Sole Voting Power        | 8,272,300 shares  |
|                                                                                  | 6. Shared Voting Power      | 0                 |
|                                                                                  | 7. Sole Dispositive Power   | 10,665,900 shares |
|                                                                                  | 8. Shared Dispositive Power | 0                 |

9. Aggregate Amount Beneficially Owned by Each Reporting Person  
 10,665,900 shares

10. Check if the Aggregate Amount in Row (9) Excludes Certain  
 Shares (See Instructions)

11. Percent of Class Represented by Amount in Row (9) 10.27%

12. Type of Reporting Person (See Instructions) IA

1. Names of Reporting Persons.  
 I.R.S. Identification Nos. of above persons (entities  
 only).  
 Donald Smith Value Fund, L.P.  
 27-0229715

2. Check the Appropriate Box if a Member of a Group (See  
 Instructions)

(a)  
 (b) ☒ [X]

3. SEC Use Only  
 .....  
 4. Citizenship or Place of Organization  
 A Delaware Corporation

|                                                                                  |                             |                   |
|----------------------------------------------------------------------------------|-----------------------------|-------------------|
| Number of<br>Shares<br>Beneficially<br>Owned by<br>Each Reporting<br>Person With | 5. Sole Voting Power        | 287,600 shares    |
|                                                                                  | 6. Shared Voting Power      | 0                 |
|                                                                                  | 7. Sole Dispositive Power   | 10,665,900 shares |
|                                                                                  | 8. Shared Dispositive Power | 0                 |

9. Aggregate Amount Beneficially Owned by Each Reporting Person  
 10,665,900 shares

10. Check if the Aggregate Amount in Row (9) Excludes Certain  
 Shares (See Instructions)

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11. Percent of Class Represented by Amount in Row (9) 10.27%  
12. Type of Reporting Person (See Instructions) PN

### Item 1.

- (a) Name of Issuer: Axcelis Technologies, Inc.  
(b) Address of Issuer's Principal Executive Offices  
108 Cherry Hill Drive  
Beverly, MA 01915

### Item 2.

- (a) Name of Person Filing: Donald Smith & Co., Inc.  
(b) Address of Principal Business Office:  
152 West 57th Street  
New York, NY 10019  
(c) Citizenship: A Delaware Corporation  
(d) Title of Class of Securities: Common  
(e) CUSIP Number: 054540109

Item 3. This statement is filed pursuant to Section 240.13d-1(b), and the person filing is an investment advisor registered in accordance with Section 240.13d-1(b)(1)(ii)(E);

### Item 4. Ownership.

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

- (a) Amount beneficially owned: 10,665,900  
(b) Percent of class: 10.27%  
(c) Number of shares as to which the person has:  
(i) SOLE POWER TO VOTE: 8,559,900  
(ii) SHARED POWER TO VOTE: SEE ITEM 6 OF COVER PAGE  
(iii) SOLE POWER TO DISPOSE: 10,665,900  
(iv) SHARED POWER TO DISPOSE: SEE ITEM 8 OF COVER PAGE

### Item 5. Ownership of Five Percent or Less is NOT APPLICABLE

### Item 6. Ownership of More than Five Percent on Behalf of Another Person:

1. Donald Smith & Co., Inc. does not serve as custodian of the assets of any of its clients; accordingly, in each instance only the client or the client's custodian or trustee bank has the right to receive dividends paid with respect to, and proceeds from the sale of, such securities.

The ultimate power to direct the receipt of dividends paid with respect to, and the proceeds from the sale of, such securities, is vested in the institutional clients which Donald Smith & Co., Inc. serves as investment advisor. Any and all discretionary authority which has been delegated to Donald Smith &

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Co., Inc. may be revoked in whole or in part at any time.

To the knowledge of Donald Smith & Co., Inc., with respect to all securities reported in this schedule owned by advisory clients of Donald Smith & Co., Inc., not more than 5% of the class of such securities is owned by any one client.

2. Donald Smith Value Fund, L.P. does not serve as custodian of its assets; accordingly, only the custodian has the right to receive dividends paid with respect to, and proceeds from the sale of, such securities.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company  
NOT APPLICABLE

Item 8. Identification and Classification of Members of the Group  
See EXHIBIT A

Item 9. Notice of Dissolution of Group  
NOT APPLICABLE

Item 10. Certification

(a)

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

### SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

December 31, 2009  
Date

Donald G. Smith\_\_\_\_\_  
Signature

President\_\_\_\_\_  
Title