## SEC Form 4

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# FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

| Check this box if no longer subject to | ) |
|--|---|
| Section 16. Form 4 or Form 5           |   |
| obligations may continue. See          |   |
| Instruction 1(b).                      |   |

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

# OMB APPROVAL OMB Number: 3235-0287 Estimated average burden hours per response: 0.5

| I I. Marile and Address of Reporting Ferson |                       |                                       | 2. Issuer Name and Ticker or Trading Symbol<br><u>AXCELIS TECHNOLOGIES INC</u> [ ACLS ] | 5. Relationship of Reporting Person(s) to Issuer<br>(Check all applicable) |  |  |  |  |  |
|---|-----------------------|---------------------------------------|---|--|--|--|--|--|--|
| BRAUNE                                      | <u>DWARD H</u>        |                                       |   | X Director 10% Owner   |  |  |  |  |  |
| 1   | (First)<br>S TECHNOLO | · · · · · · · · · · · · · · · · · · · | 3. Date of Earliest Transaction (Month/Day/Year)<br>02/02/2011                          | Officer (give title Other (specify below) below)                           |  |  |  |  |  |
| 108 CHERRY HILL DRIVE                       |                       |                                       | 4. If Amendment, Date of Original Filed (Month/Day/Year)                                | 6. Individual or Joint/Group Filing (Check Applicable Line)                |  |  |  |  |  |
| (Street)                                    |                       |                                       |   | X Form filed by One Reporting Person                                       |  |  |  |  |  |
| BEVERLY                                     | MA                    | 01915                                 |   | Form filed by More than One Reporting<br>Person                            |  |  |  |  |  |
| (City)                                      | (State)               | (Zip)                                 |   |  |  |  |  |  |  |

#### Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1. Title of Security (Instr. 3) | 2. Transaction<br>Date<br>(Month/Day/Year) | 2A. Deemed<br>Execution Date,<br>if any<br>(Month/Day/Year) | 3.<br>Transa<br>Code (<br>8) | ction | 4. Securities A<br>Disposed Of (<br>5) |               |       | 5. Amount of<br>Securities<br>Beneficially<br>Owned Following |  | 7. Nature<br>of Indirect<br>Beneficial<br>Ownership |
|---------------------------------|--|---|------------------------------|-------|--|---------------|-------|---|--|---|
|                                 |  |   | Code                         | v     | Amount                                 | (A) or<br>(D) | Price | Reported<br>Transaction(s)<br>(Instr. 3 and 4)                |  | (Instr. 4)  |

 
 Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of<br>Derivative<br>Security<br>(Instr. 3) | 2.<br>Conversion<br>or Exercise<br>Price of<br>Derivative<br>Security | 3. Transaction<br>Date<br>(Month/Day/Year) | 3A. Deemed<br>Execution Date,<br>if any | 4.<br>Transa<br>Code (<br>8) | ction | 5. Number 6<br>n of E                    |       | 6. Date Exercisable and<br>Expiration Date<br>(Month/Day/Year) |            | 7. Title and Amount<br>of Securities<br>Underlying<br>Derivative Security<br>(Instr. 3 and 4) |  | 8. Price of<br>Derivative<br>Security<br>(Instr. 5) | derivative<br>Securities<br>Beneficially<br>Owned | 10.<br>Ownership<br>Form:<br>Direct (D)<br>or Indirect<br>(I) (Instr. 4) | 11. Nature<br>of Indirect<br>Beneficial<br>Ownership<br>(Instr. 4) |
|---|---|--|---|------------------------------|-------|--|-------|--|------------|---|--|---|---|--|--|
|   |   |  |   | Code                         | v     | Dispose<br>of (D) (li<br>3, 4 and<br>(A) | nstr. | Date<br>Exercisable  |            |   | Amount<br>or<br>Number<br>of<br>Title Shares |   | Reported<br>Transaction(s)<br>(Instr. 4)          |  |  |
| Stock<br>option<br>(right to<br>buy)                | \$2.74  | 02/02/2011                                 |   | A <sup>(1)</sup>             |       | 40,000                                   |       | 08/03/2011   | 02/02/2021 | Common<br>Stock   | 40,000                                       | \$0   | 40,000  | D  |  |

Explanation of Responses:

1. Granted Pursuant to the Axcelis Technologies, Inc. 2000 Stock Plan.

### Lynnette C. Fallon, as attorney in fact for Edward H. Braun

02/03/2011

\*\* Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

\* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

\*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.