FLYNN MATTHEW P

Form 4

December 10, 2010

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

OMB Number:

3235-0287 January 31,

Check this box if no longer

subject to Section 16. Form 4 or

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Expires: 2005 Estimated average

OMB APPROVAL

response...

burden hours per 0.5

Form 5 obligations may continue. See Instruction

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * FLYNN MATTHEW P

2. Issuer Name and Ticker or Trading

Issuer

Symbol

AXCELIS TECHNOLOGIES INC

(Check all applicable)

[ACLS]

(Last) (First) (Middle)

(Street)

(State)

(Month/Day/Year)

Director 10% Owner X_ Officer (give title Other (specify below)

5. Relationship of Reporting Person(s) to

12/09/2010

C/O AXCELIS TECHNOLOGIES.

(Zip)

EVP, Customer Operations

INC., 108 CHERRY HILL DRIVE

4. If Amendment, Date Original

3. Date of Earliest Transaction

6. Individual or Joint/Group Filing(Check

Filed(Month/Day/Year)

Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting

BEVERLY, MA 01915

(City)

| (City) | (State) | (Zip) Tab | le I - Non-l | Derivative | Secur | ities Acqui | red, Disposed of, | or Beneficiall | y Owned |
|--------------------------------------|---|---|---|---|-------|--------------|--|--|---|
| 1.Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securit or Dispos (Instr. 3, 4 | ed of | ` ′ | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
| Common Stock | 12/09/2010 | | M | 15,000 | A | \$ 1.16 | 122,135 | D | |
| Common Stock | 12/09/2010 | | S | 3,400 | D | \$ 3.1101 | 118,735 | D | |
| Common Stock | 12/09/2010 | | S | 11,600 | D | \$ 3.11 | 107,135 <u>(1)</u> | D | |

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

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SEC 1474 (9-02)

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displays a currently valid OMB control number.

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

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transactio Code (Instr. 8) | 5. Number of or Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | 7. Title and Am Underlying Sect (Instr. 3 and 4) | |
|--|---|--------------------------------------|---|--|--|--|--------------------|--|----------|
| | | | | Code V | (A) (D) | Date Exercisable | Expiration Date | Title | or No |
| Axcelis non-qualified stock option (right to buy) | \$ 1.16 | 12/09/2010 | | M | 15,000 | 11/16/2010(2) | 11/15/2019 | Common Stock | 1 |

Reporting Owners

| Reporting Owner Name / Address | remain po | | | | | | |
|---|-----------|-----------|---------|-------|--|--|--|
| | Director | 10% Owner | Officer | Other | | | |
| YNN MATTHEW P O AXCELIS TECHNOLOGIES, INC. | | | EVP, | | | | |

C/O AXCELIS TECHNOLOGIES, INC 108 CHERRY HILL DRIVE BEVERLY, MA 01915

Customer Operations

Relationshins

Signatures

FLY

Lynnette C. Fallon, as attorney in fact for Matthew P. Flynn 12/09/2010

**Signature of Reporting Person Date

Explanation of Responses:

- * 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).
- Of the shares held as of December 9, 2010, 16,909 were issuable on vesting of restricted stock units granted the executive under the 2000 (1). Stock Plan and are subject to forfaiture. A portion of these shares will be withheld by the Company on vesting to satisfy to withhelding.
- (1) Stock Plan and are subject to forfeiture. A portion of these shares will be withheld by the Company on vesting to satisfy tax withholding requirements.
- (2) This option is a portion of an option granted on November 16, 2009, which is exercisable as to 25% of the total shares granted on each of the first four anniversaries of the date of grant.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

Reporting Owners 2