PUMA MARY G Form 4 July 18, 2011

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 OF **SECURITIES**

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

(Print or Type Responses)

(Last)

1. Title of

Security

(Instr. 3)

1. Name and Address of Reporting Person *

PUMA MARY G

(First) (Middle)

C/O AXCELIS TECHNOLOGIES. INC., 108 CHERRY HILL DRIVE

(Street)

2. Transaction Date 2A. Deemed

BEVERLY, MA 01915 (City) (State) (Zip) 2. Issuer Name and Ticker or Trading

Symbol

AXCELIS TECHNOLOGIES INC [ACLS]

3. Date of Earliest Transaction (Month/Day/Year)

07/15/2011

4. If Amendment, Date Original

Filed(Month/Day/Year)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 3. 4. Securities (Month/Day/Year) Execution Date, if TransactionAcquired (A) or

> (Month/Day/Year) (Instr. 8)

Code Disposed of (D) (Instr. 3, 4 and 5)

Reported (A) Transaction(s) or (Instr. 3 and 4)

Code V Amount (D) Price

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

Persons who respond to the collection of SEC 1474 information contained in this form are not required to respond unless the form 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)

3. Transaction Date 3A. Deemed 1. Title of (Month/Day/Year) Execution Date, if Derivative Conversion

5. Number of TransactionDerivative

6. Date Exercisable and **Expiration Date**

7. Title and Amount Underlying Securities

OMB APPROVAL

3235-0287

January 31,

2005

0.5

OMB

Number:

Expires:

response...

5. Relationship of Reporting Person(s) to

(Check all applicable)

Chairman, President and CEO

6. Ownership

Form: Direct

6. Individual or Joint/Group Filing(Check

X Form filed by One Reporting Person Form filed by More than One Reporting

(I)

(Instr. 4)

10% Owner

Other (specify

7. Nature of

Ownership (Instr. 4)

(9-02)

Indirect

(D) or Indirect Beneficial

Issuer

below)

_X__ Director

Applicable Line)

5. Amount of

Securities

Following

Owned

Beneficially

X_ Officer (give title

Estimated average

burden hours per

1

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| Security (Instr. 3) | or Exercise Price of Derivative Security | • | any (Month/Day/Year) | Code (Instr. 8) | Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | | | | (Instr. 3 and 4) | |
|------------------------------|--|------------|-------------------------|-----------------|--|-----|------------------|--------------------|------------------|-------------------------|
| C41- | | | | Code V | 7 (A) | (D) | Date Exercisable | Expiration Date | Title | Amous Numb Shares |
| Stock option (right to | \$ 1.6 | 07/15/2011 | | A <u>(1)</u> | 250,000 | | 07/15/2015(2) | 07/15/2021 | Common Stock | 250,0 |

Reporting Owners

Reporting Owner Name / Address

Pi to 10% O OCC

Director 10% Owner Officer Other

PUMA MARY G C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE BEVERLY, MA 01915

X Chairman, President and CEO

Signatures

buy)

Lynnette C. Fallon, as attorney in fact for Mary G.

Puma 07/18/2011

**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).
- (1) Granted pursuant to the Axcelis Technologies, Inc. 2000 Stock Plan.
- (2) To become exercisable as to 25% of the shares on each of 7/15/2012, 7/15/2013, 7/15/2014 and 7/15/2015.

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.

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