

BASSETT STEPHEN G

Form 4

July 16, 2010

**FORM 4****UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549**

OMB APPROVAL

OMB  
Number: 3235-0287  
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2005  
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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)

1. Name and Address of Reporting Person \*  
BASSETT STEPHEN G2. Issuer Name and Ticker or Trading  
Symbol  
AXCELIS TECHNOLOGIES INC  
[ACLS]5. Relationship of Reporting Person(s) to  
Issuer

(Check all applicable)

(Last) (First) (Middle)  
108 CHERRY HILL DRIVE  
(Street)3. Date of Earliest Transaction  
(Month/Day/Year)  
07/15/2010\_\_\_\_ Director \_\_\_\_ 10% Owner  
\_\_\_\_X\_\_\_\_ Officer (give title below) \_\_\_\_ Other (specify below)  
Executive VP and CFO

BEVERLY, MA 01915

4. If Amendment, Date Original  
Filed(Month/Day/Year)6. Individual or Joint/Group Filing(Check  
Applicable Line)  
\_\_\_\_X\_\_\_\_ Form filed by One Reporting Person  
\_\_\_\_ Form filed by More than One Reporting  
Person

(City) (State) (Zip)

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

| 1. Title of<br>Security<br>(Instr. 3) | 2. Transaction Date<br>(Month/Day/Year) | 2A. Deemed<br>Execution Date, if<br>any<br>(Month/Day/Year) | 3. Transaction<br>Code<br>(Instr. 8) | 4. Securities<br>Acquired (A) or<br>Disposed of (D)<br>(Instr. 3, 4 and 5) | 5. Amount of<br>Securities<br>Beneficially<br>Owned<br>Following<br>Reported<br>Transaction(s)<br>(Instr. 3 and 4) | 6. Ownership<br>Form: Direct<br>(D) or Indirect<br>(I)<br>(Instr. 4) | 7. Nature of<br>Indirect<br>Beneficial<br>Ownership<br>(Instr. 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  
information contained in this form are not  
required to respond unless the form  
displays a currently valid OMB control  
number.**SEC 1474  
(9-02)**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 | 2. Conversion<br>or Exercise | 3. Transaction Date<br>(Month/Day/Year) | 3A. Deemed<br>Execution Date, if<br>any | 4. Transaction<br>Code | 5. Number of<br>Derivative<br>Securities | 6. Date Exercisable and<br>Expiration Date<br>(Month/Day/Year) | 7. Title and Amount<br>Underlying Securities<br>(Instr. 3 and 4) |
|---------------------------------------|------------------------------|-----------------------------------------|-----------------------------------------|------------------------|------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------|
|---------------------------------------|------------------------------|-----------------------------------------|-----------------------------------------|------------------------|------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------|

## Edgar Filing: BASSETT STEPHEN G - Form 4

| (Instr. 3)                           | Price of<br>Derivative<br>Security | (Month/Day/Year) | (Instr. 8)   | Acquired (A) or<br>Disposed of (D)<br>(Instr. 3, 4, and<br>5) |         |     |                       |                    |                 |                            |  |
|--------------------------------------|------------------------------------|------------------|--------------|---------------------------------------------------------------|---------|-----|-----------------------|--------------------|-----------------|----------------------------|--|
|                                      |                                    |                  | Code         | V                                                             | (A)     | (D) | Date Exercisable      | Expiration<br>Date | Title           | Amount<br>Number<br>Shares |  |
| Stock<br>option<br>(right to<br>buy) | \$ 1.6                             | 07/15/2010       | A <u>(1)</u> |                                                               | 125,000 |     | 07/15/2014 <u>(2)</u> | 07/15/2020         | Common<br>Stock | 125,000                    |  |

## Reporting Owners

| Reporting Owner Name / Address                                  | Relationships |           |                      |       |
|-----------------------------------------------------------------|---------------|-----------|----------------------|-------|
|                                                                 | Director      | 10% Owner | Officer              | Other |
| BASSETT STEPHEN G<br>108 CHERRY HILL DRIVE<br>BEVERLY, MA 01915 |               |           | Executive VP and CFO |       |

## Signatures

Lynnette C. Fallon, as attorney in fact for Stephen G. Bassett 07/15/2010

\*\*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).

- (1) Granted Pursuant to the Axcelis Technologies, Inc. 2000 Stock Plan.
- (2) To become exercisable as to 25% of the shares on each of 7/15/2011, 7/15/2012, 7/15/2013 and 7/15/2014.

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

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