AXCELIS TECHNOLOGIES INC

Form 4

December 17, 2013

FORM 4

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

SECURITIES

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

response...

Check this box if no longer subject to Section 16. Form 4 or 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 * PUMA MARY G			2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)		
(Last) C/O AXCELI INC., 108 CH		· ·	3. Date of Earliest Transaction (Month/Day/Year) 12/17/2013	_X_ Director 10% Owner X Officer (give title Other (specify below) Chairman, President and CEO		
BEVERLY, M	(Street) 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) Tabl	e I - Non-D	erivative	Secur	ities Acq	uired, Disposed o	f, or Beneficial	ly 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. Securities Acquired on(A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code V	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)			
Common Stock	12/17/2013		S <u>(1)</u>	7,922	D	\$ 2.16	400,855	D		
Common Stock	12/17/2013		S	4,528	D	\$ 2.17	396,327	D		
Common Stock	12/17/2013		S	100	D	\$ 2.175	396,227	D		
Common Stock							20,000	I	Held by spouse	

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

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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 Derivative	2. Conversion	3. Transaction Date (Month/Day/Year)		4.	5. onNumber	6. Date Exerc Expiration D		7. Titl		8. Price of Derivative	9. Nu Deriv
Security (Instr. 3)	or Exercise Price of Derivative Security	(Month/Day/Tear)	any (Month/Day/Year)	Code (Instr. 8)	of	(Month/Day/		Under Securi	rlying	Security (Instr. 5)	Secur Bene Owne Follo Repo Trans (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		

Reporting Owners

Relationships Reporting Owner Name / Address

> 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

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

Puma 12/17/2013

> **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).
- The sales reported on this Form are pursuant to a prior election by the executive officer to sell shares issued on the vesting of restricted stock units in order to generate funds to pay to the Company to cover the executive's tax liability arising from the vesting event and related commissions. The proceeds of this sale will be paid to the Company and the broker.

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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