FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPROVAL								
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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

1. Name and Address of Reporting Person* PUMA MARY G					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ ACLS ]						ck all applica Director	10% Owner		ner	
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 07/15/2014						X Officer (give title below) Other (specify below)  Chairman, President and CEO				
(Street) BEVERI		IA State)	01915 (Zip)	4.	. If Ame	endment, I	Date o	of Original File	d (Month/Da <sub>j</sub>	y/Year)	6. Inc Line)	Form fil	ed by One Re	ng (Check App eporting Persor aan One Repor	ı
		Та	ıble I - Non-D	erivati	ive S	ecuritie	s Ac	quired, Di	sposed o	f, or Ber	neficially	Owned			
Date					Action 2A. Deemed Execution Date if any (Month/Day/Yea		Code (Instr.			Beneficially Owned Followin		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
							Code V	Amount	(A) or (D)	Price	Reported Transaction (Instr. 3 ar			Instr. 4)	
			Table II - De (e.ç					uired, Dis , options,				Owned	<u>'</u>		
1. Title of Derivative Security (Instr. 3)	erivative Conversion Date Execution Date, curity or Exercise (Month/Day/Year) if any		Transaction Code (Instr. 8)  8) Accord or I		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		e	of Securities		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)	s)	
Stock option (right to buy)	\$1.8	07/15/2014		A <sup>(1)</sup>		300,000		07/15/2018 <sup>(2)</sup>	07/15/2021	Common Stock	300,000	\$0	300,000	D	

## **Explanation of Responses:**

- $1.\ Granted\ pursuant\ to\ the\ Axcelis\ Technologies,\ Inc.\ 2012\ Equity\ Incentive\ Plan.$
- 2. These options will vest as to 25% of the shares on each of July 15, 2015, July 15, 2016, July 15, 2017 and July 15, 2018, if the officer remains in the service of the Company on such vesting date.

<u>Lynnette C. Fallon, as attorney</u> <u>in fact for Mary G. Puma</u> <u>07/16/2014</u>

\*\* Signature of Reporting Person Date

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

- $^{\star}$  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.

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