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## FORM 4

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to	n
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 OMB APPROVAL OMB Number: 3235-0287 Estimated average burden hours per response: 0.5

	dress of Reporting	Person <sup>*</sup>	2. Issuer Name <b>and</b> Ticker or Trading Symbol <u>AXCELIS TECHNOLOGIES INC</u> [ ACLS ]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
PUMA MA	<u>IRY G</u>			X	Director	10% Owner			
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year)	x	Officer (give title below)	Other (specify below)			
C/O AXCELIS TECHNOLOGIES, INC.		GIES, INC.	11/09/2015		Chairman, President and CEO				
108 CHERRY	HILL DRIVE								
(Street)			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indi Line)	vidual or Joint/Group Fili	ng (Check Applicable			
BEVERLY	МА	01915		X	Form filed by One Re	porting Person			
			—		Form filed by More th Person	an One Reporting			
(City)	(State)	(Zip)		1					

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

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code ( 8)				5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership			
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(Instr. 4)		
Common Stock	11/09/2015		Р		3,500	A	\$2.33	399,724	D			
Common Stock	11/09/2015		Р		4,200	A	\$2.34	403,924	D			
Common Stock	11/09/2015		Р		5,200	A	\$2.35	409,124	D			
Common Stock	11/09/2015		Р		6,100	A	\$2.36	415,224	D			
Common Stock	11/09/2015		Р		10,800	A	\$2.37	426,024	D			
Common Stock	11/09/2015		Р		10,200	A	\$2.38	436,224	D			
Common Stock								20,000	I	Held by spouse		

# 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. Transa Code ( 8)		of		6. Date Exerc Expiration Da (Month/Day/Y	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. 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				

### Explanation of Responses:

**Remarks:** 

Lynnette C. Fallon, as attorney

<u>11/09/2015</u>

\*\* Signature of Reporting Person Date

in fact for Mary G. Puma

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

\* 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.

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 Number.