#### FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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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

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burden									
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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*					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ ACLS ]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)							
<u>PUMA MARY G</u>						ACLS									X	Direc	ctor	109	6 Owner		
		HNOLOGIES, I	Middle)		3. Date of Earliest Transaction (Month/Day/Year) 02/28/2018										X	Office below	,	Oth bel and CEO	er (specify ow)		
108 CHERRY HILL DRIVE																					
(Street) BEVERL	.Y M.	<b>A</b> 0	)1915		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)  6. Individual Line)  X									Form filed by More than One Reporting						
(City)	(St	ate) (2	Zip)													Person					
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
Date			2. Trans Date (Month/I	nsaction n/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. ) 8)						, 4 and S B O		ount of ities icially d Following	6. Ownershi Form: Direct (D) or Indirect (I) (Instr. 4)	of Indirect t Beneficial Ownership			
									Code	v	Amount		(A) or (D)	Pric	e	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)		
Common Stock 02/28					3/2018	2018		D		2,292		D	\$0.	00(1)	228,805(2)		D				
Common Stock 02/28/					3/2018	2018		F		2,757		D	\$0.00(3)		226,048(2)		D				
Common Stock															ţ	5,000	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. Deem Execution if any (Month/Da	Date,	4. Transa Code ( 8)	Instr.	of	rities ired osed . 3, 4			•	Amount of Securities Underlying Derivative Security (Instrand 4)  Amount of Securities Amount or Numb of		nstr. 3			9. Number o derivative Securities Beneficially Owned Following Reported Transactioni (Instr. 4)	Ownersh Form: Direct (D or Indire (I) (Instr.	Beneficial Ownership t (Instr. 4)		

### **Explanation of Responses:**

- 1. These shares were issuable on restricted stock units which forfeited on February 28, 2018 as a result of the non-achievement of 2017 performance goals.
- 2. Of the shares beneficially owned by the executive as of February 28, 2018, 90,625 were issuable on vesting of restricted stock units which are subject to forfeiture.
- 3. These shares were withheld by the Company to cover the tax withholding obligations of the executive on the vesting of restricted stock units on February 28, 2018.

# Remarks:

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

03/02/2018

\*\* Signature of Reporting Person

Date

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.