FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
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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).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

								<u> </u>												
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)					
FUMA MART G															X Dire		ector		10% O	wner
(Last)	(Fi	rst) (Middle)		3. 🖸	Date of Earliest Transaction (Month/Day/Year)									X	Officer (give title below)			Other (specify below)	
C/O AXCELIS TECHNOLOGIES, INC.					02/	02/15/2017										President and CEO				
108 CHERRY HILL DRIVE																				
100 CHERRY THEE DRIVE						4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable					
(Street)					7. "	ı Am	Jilailici	it, Date	or Origin	ai i iicc	i (Wonan) D	ду/ ТС	,ui)		Line)	viduai c	i John Croup) i iiii i	g (Check A	pplicable
BEVERL	Y M.	Α (01915												X Form filed by One Rep				eporting Person	
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(City)	(St	ate) (Zip)													Person				
		Tahl	A I - No	n-Deriv	zative	- Sa	Curit	Δς Δα	auired	Die	posed o	of o	r Ro	nefic	vially	Own				
			- 140			_			-	, 013	1									
1. Title of Security (Instr. 3) 2. Tra				Date	Date		2A. Deemed Execution Date,		Trans	3. Transaction		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4				Secur	curities		wnership n: Direct	7. Nature of Indirect
				(Month/I	(Month/Day/Year)		if any (Month/Day/Year)					5)					Beneficially Owned Following		r Indirect nstr. 4)	Beneficial Ownership
										Т	1	(A) or		Π		Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)
									Code	V	Amount		(A) or (D)	" Price						
Common Stock 02/1					5/2017	2017					10,000	0	D	\$0	\$0.00(1)		199,056		D	
Common	Common Stock 02/15/2					2017			F		4,969)	D	\$0.00(2)		194,087(3)			D	
Common Stock																5,000		I	Held by Spouse	
															Spou					
		Та									sed of,					wned				
				e.g., p	uts, c	calls	s, wai	rants	, optio	ns, c	onvertib	ole s	secu	rities	5)					
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, Transa Code (of Der Sec Acc (A) Dis of (Ins	of I		Exerciion Dat Day/Ye		7. Title and Amount of Securities Underlying Derivative Security (Inst and 4)		of s ig	Deri Sec (Ins	Price of rivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction((Instr. 4)	O F D O (I	0. Dwnership Form: Direct (D) or Indirect) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Titl	OI N Of	umbei						

Explanation of Responses:

- 1. These shares were issuable on restricted stock units which forfeited on February 15, 2017 as a result of the non-achievement of 2016 performance goals.
- 2. 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 15, 2017.
- 3. On February 15, 2017, restricted stock units with performance vesting terms granted in May 2016 were determined to have vested as to 60% of the units. The remaining units forfeited. The shares issued to the executive on the vested units were reduced by shares having a value equal to the executive's tax withholding obligation. After these events, of the shares held by the executive as of February 15, 2017, 75,000 were issuable on vesting of other restricted stock units which remain subject to forfeiture.

Remarks:

<u>Lynnette C. Fallon, as attorney</u> <u>in fact for Mary G. Puma</u> <u>02/15/2017</u>

** 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.