FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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).

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

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)						
PUMA MARY G									1,020		20 11 10		020]	'	X Di	ector		1	0% O	wner	
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 11/19/2019										low) `	r (give title) President an		Other (specify below)		
(Street) BEVERLY MA 01915 (City) (State) (Zip)						4. If Amendment, Date of Original Filed (Month/Day/Year)									ndividual or Joint/Group Filing (Check Applicable e) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																					
Date					ate Ionth/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		Code (Transaction Dis		. Securities Acquired (A) isposed Of (D) (Instr. 3, 4)					.	6. Owners Form: Dire (D) or Indi (I) (Instr. 4	ct ect	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
								v	Amount	(A) or D)	Price	Trai	saction tr. 3 and	ction(s)			(111341. 4)			
Common Stock 11/2						19/2019					1,000		A	\$0.0	00	6,000		I		held by spouse	
Common Stock															349,87	9,873(1)					
	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. Deeme Execution if any (Month/Da	Date,	Date, Transacti Code (Ins				6. Date E Expiratio (Month/D	n Dat	е	and 7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		str. 3	8. Price Derivati Security (Instr. 5)	deri Sec Ben Owr Foll Rep Trar	9. Number or derivative Securities Beneficially Owned Following Reported Transaction ((Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	(D) rect	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code V		v	(A)	(D)	Date Exercisal	ate Ex kercisable Da		Title	or Nu of	nount mber ares							

Explanation of Responses:

1. Of the shares held as of November 19, 2019, 167,676 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.

Remarks:

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

11/21/2019

** 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.