FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
vvasimigton,	D.C.	20040

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burden									
hours per response:	0.5								

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

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)						
PUMA MARY G						The state of the s								X	X Director		10% Owner		vner	
	`	HNOLOGIES, 1	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 05/08/2020								X	Officer (give title below)  Other (specify below)  President and CEO					
		- 4. I	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable								
(Street) BEVERLY MA 01915															X Form filed by One Reporting Person					
———	71 141	71			-										Form filed by More than One Reporting Person					
(City)	(S	tate)	(Zip)			reisc														
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
Date				Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			d 5)		es ally Following	Form (D) o	n: Direct r Indirect istr. 4)	7. Nature of Indirect Beneficial Ownership		
						Code	v	Amount	(A) or (D)	Price		Reported Transact (Instr. 3	tion(s)			(Instr. 4)				
Common Stock				05/08	5/08/2020				М		75,000	A	\$7	.2	407,541(1)			D		
Common Stock 05/				05/08	3/2020	/2020					75,000	D	\$26.	13 <sup>(2)</sup>	332,541(1)		D			
Common Stock														6,000				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. Deeme Execution if any (Month/Da	Date,	4. Transa Code (l 8)				6. Date Exercis Expiration Date (Month/Day/Ye		te	7. Title and Amou of Securities Underlying Derivative Securi (Instr. 3 and 4)		S	. Price of erivative ecurity nstr. 5)		ly Owner Form Direct or Inc. (I) (In	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	Amous or Number of Shares	er						
Stock Option (right to buy)	\$7.2	05/08/2020			М			75,000	07/15/20	018	07/15/2021	Common Stock	75,00	00	\$0.00	0		D		

## **Explanation of Responses:**

- 1. Of the shares held as of May 8, 2020, 128,643 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.
- 2. The price reported in Column 4 is a weighted-average price. These shares were sold in multiple transactions at prices ranging from \$26.00 to \$26.40, inclusive. The reporting person undertakes to provide to Axcelis Technologies, Inc., any security holder of Axcelis Technologies, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price.

## Remarks:

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

05/08/2020

oth.

\*\* Signature of Reporting Person

Date

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

- $^{\star}$  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.

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.