FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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OMB APPROVAL											
OMB Number:	3235-0287										
Estimated average	burden										

0.5

hours per response:

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								Relationship of Reporting Person(s) to Issuer (Check all applicable)							
<u>PUMA MARY G</u>				AXCELIS TECHNOLOGIES INC [ ACLS							LS	X	,			10% O	wner		
(Last) (First) (Middle)													X	Office	er (give title v)		Other (: below)	specify	
C/O AXCELIS TECHNOLOGIES, INC.						3. Date of Earliest Transaction (Month/Day/Year) 11/23/2022								President and CEO					
108 CHERRY HILL DRIVE				11/2	11/23/2022														
(0, 1)					4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street) BEVERI	LY M	<b>A</b> 0	1915										Ι,	X	Form	n filed by One Reporting Person			
,———		· · · · · · · · · · · · · · · · · · ·	1713												Form filed by More than One Reporting Person				
(City)	(Sta	ate) (2	Zip)												1 6130	) i			
		Table	I - No	on-Deriva	tive	Secui	rities	Acc	quire	d, Dis	sposed of	, or B	enefic	ially	Own	ed			
1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/				Execution Date,		3. Transaction Code (Instr. 8)  4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4)				and 5) Securit Benefic Owned		ties For cially (D) d Following (I) (		n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership				
							Code	v	Amount	(A) or (D)	Price			action(s) 3 and 4)			(Instr. 4)		
Common Stock 11/23/20					122		S		3,998	D	\$80.	01 <sup>(1)</sup> 401		1,910(2)		D			
Common Stock										5,000 I By			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	ercise (Month/Day/Year) if any of ative (Month/Day/Year)		ıtion Date,		Transaction Code (Instr. 8)		r osed ) r. 3, 4	Expiration Date		ate	7. Title and Amount of Securities Underlying Derivative Security (Ins: 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		   	(A)	(D)	Date Exerc	isable	Expiration Date	1 1	Amount or Number of Shares						

## Explanation of Responses:

- 1. The price reported in Column 4 is a weighted-average price. These shares were sold in multiple transactions at prices ranging from \$80.00 to \$80.10, 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.
- 2. Of the shares held as of November 23, 2022, 118,906 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.

## Remarks:

<u>Lynnette C. Fallon, as attorney</u> in fact for Mary G. Puma <u>11/28/2022</u>

\*\* 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.