FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D	D.C. 20549
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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(h)

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
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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* PUMA MARY G					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS									Relationship of Reporting (Check all applicable) X Director				rson(s) to Is	
	(Fir CELIS TEC ERRY HILL	CHNOLOGIES,	/iddle)			3. Date of Earliest Transaction (Month/Day/Year) 08/12/2022							_	X	Office below	er (give title v) President	t and	Other (below)	specify
(Street) BEVERI			1915 Zip)		4. If <i>i</i>	4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person										on			
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day					Execution Date		ate,	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4			and 5) Securitie Beneficia		ties For cially (D) Following (I)		n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	(A) or (D)	Price		Transa	action(s) 3 and 4)			(111341. 4)
Common Stock 08/12/20)22			S		13,288	D	\$75.9	5.94(1)		405,908(2)		D		
Common Stock														5,000			I	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)	Derivative Conversion Date Execution Date, T Security or Exercise (Month/Day/Year) if any C					ransaction ode (Instr.		umber vative urities uired r osed) r. 3, 4	Expiration I e (Month/Day s		ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)		9. Number derivative Securities Beneficially Owned Following Reported Transactio (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exerci	isable	Expiration Date	Title	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 \$75.83 to \$76.19, 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 August 12, 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:

Lynnette C. Fallon, as attorney 08/12/2022 in fact for Mary G. Puma

** 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.