FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL											
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\neg	to Section 16. Form 4 or Form 5
_	obligations may continue. See
	Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

							. ,												4	
1. Name and Address of Reporting Person* PUMA MARY G					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS									S. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner						
,	1	[]									Office	er (give title		Other (specify					
(Last) (First) (Middle)						3. Date of Earliest Transaction (Month/Day/Year)								X	belov			below)	-,,	
C/O AXCELIS TECHNOLOGIES, INC.					05/25/2023															
108 CHERRY HILL DRIVE					4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street)														X Form filed by One Reporting Person						
BEVERI	LY M.	A 01915												Form filed by More than One Reporting Person					oorting	
(City)	(City) (State) (Zip)						Rule 10b5-1(c) Transaction Indication													
							ansaction was ditions of Rule					truction or wr	itten pl	lan that is int	tended to					
		Table	I - N	Ion-Deriva	tive S	Secu	rities	Ac	quire	d, Di	sposed o	f, or E	Benefic	ially	Owr	ned				
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye				Execution Date,			e,	3. Transaction Code (Instr. 8) 4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4)					and 5) Secur Benef Owne Follow		icially d ving	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	n: Direct or rect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
									Code	v	Amount	(A) or (D)	Price			erted saction(s) : 3 and 4)				
Common Stock 05/25/					23				S		19,722	D	\$151.8	300,686 ⁽²⁾		0,686 ⁽²⁾		D		
Common Stock													5,000		00 1 1 1		Held by Spouse			
		Tab	le I	l - Derivativ (e.g., pu							posed of, convertil				Owne	d				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Exe if a	Deemed cution Date, 1y nth/Day/Year)	4. Transaction Code (Instr. 8) 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) Code V (A) (D) Date Exercisable		Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4		Expir (Mon	ration I		7. Titl Amou Secur Unde Deriv Secur (Instr	int of rities rlying ative rity . 3 and 4)	Deri Seci (Inst	Price of ivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transactior (Instr. 4)	Owners Form: Direct or India (I) (Inst	Ownership	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
								Expiration Date	Title	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 \$151.71 to \$151.99, 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 May 25, 2023, 67,420 were issuable on vesting of restricted stock units granted to the director under the 2012 Equity Incentive Plan and are subject to forfeiture.

Remarks:

<u>Lynnette C. Fallon, as</u> attorney in fact for Mary G. 05/25/2023 <u>Puma</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.