FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVA

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

OMB APPROVAL									
OMB Number:	3235-0287								
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1. Name and Address of Reporting Person* PUMA MARY G					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS								5. Relationship of Re (Check all applicable X Director			,			
(Last)	Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC.				3. Date of Earliest Transaction (Month/Day/Year) 05/09/2024								X	belov	er (give title w) CUTIVE CHA		Other (s below)	·	
108 CHERRY HILL DRIVE				4. If /	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Appl Line)					pplicable	
(Street) BEVERI	LY M.	A 0	1915											X		filed by Moi		oorting Perso an One Repo	
(City)	(St	ate) (Z	Zip)		Ru	Rule 10b5-1(c) Transaction Indication													
Check this box to indicate that a transacti satisfy the affirmative defense conditions														uction or writt	en pla	an that is inter	nded to		
		Table	I - N	Ion-Deriva				Ac	quire	d, Di	-	-		ally					
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Y				rear) i	Execution Date,		e,	3. Transaction Code (Instr. 8) 4. Securities Ac Disposed Of (D)					5)	5. Amount of Securities Beneficially Owned Following Reported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
								Code	v	Amount	(A) or (D)	Price		Transa	saction(s) r. 3 and 4)			(111511. 4)	
Common Stock 05/09/202				24				F ⁽¹⁾		17,393	D	\$113.0	.04(2) 23		1,976(3)		D		
Common Stock															5,000		I		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)	Derivative Conversion Date Execution Date, Security or Exercise (Month/Day/Year) if any				Transaction Code (Instr. B) S		rative rities rired r osed) r. 3, 4	Expi	ite Exer ration I ith/Day		7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4)						Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisable		Expiration Date	Title	or Number of Shares						

Explanation of Responses:

- 1. This forfeiture of shares for tax withholding purposes relates to the vesting on May 9, 2024 of certain restricted stock units granted to the executive in accordance with the Company's Executive Equity Retirement Program. As agreed with the executive, the shares issued to the executive on the vested shares were reduced by a number of shares having a value equal to the executive's tax withholding obligation with respect to the vested shares.
- 2. These shares were withheld by the Company to cover the tax withholding obligations of the executive on the vesting of restricted stock units on May 9, 2024.
- 3. Of the shares held as of May 9, 2024, after the acceleration of vesting, 5,252 shares were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.

/s/ Lynnette C. Fallon, Attorney-in-Fact

05/09/2024

Signature of

** 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.