FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	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(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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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 Person(s) to Issuer (Check all applicable)						
PUMA	MAKY	<u>J</u>			1	CLL	10 11		1110	Loc	JIEG IIVC	2 L 110		X	Direc	tor		10% Ov	wner	
(Last) (First) (Middle)						1									Office below	er (give title v)		Other (s	specify	
C/O AXCELIS TECHNOLOGIES, INC.						3. Date of Earliest Transaction (Month/Day/Year)									President and CEO					
108 CHERRY HILL DRIVE						12/01/2022														
		4. If <i>i</i>	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable									
(Street)			, , , , , ,								Line)									
BEVERI	LY M	A 0	1915											X	Form filed by More than One Reporting					
															Form filed by More than One Reporting Person					
(City)	(St	ate) (Z	Zip)																	
		Table	I - No	on-Deriva	tive \$	Secur	rities	Acc	quirec	d, Dis	sposed of	, or B	Benefi	cially	Own	ed				
Date				Date	2. Transaction Date Month/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				nd 5) Securities Beneficial Owned Fo		Forn (D) c	n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership	
							Code	v	Amount	(A) or (D)	Price)	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)			
Common Stock 12/01/)22					1,500	D	\$80	.02(1) 400		0,410(2)		D		
Common Stock 12				12/05/20	2022				S		2,697	D	\$80	12 ⁽³⁾ 397,		7,713(2)		D		
Common Stock															5,000				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)	rative Conversion Date Execution Date rity or Exercise (Month/Day/Year) if any			ition Date,	4. Transactio Code (Insti 8)				Expira	e Exerc ation D h/Day/		7. Title and Amount of Securities Underlying Derivative Security (Ins 3 and 4)		Der Sed (Ins	Price of rivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	Amour or Number of Shares	er						
Evalenation	of Posnon																			

- 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 \$80.12, 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 December 1, 2022 and December 5, 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.
- 3. The price reported in Column 4 is a weighted-average price. These shares were sold in multiple transactions at prices ranging from \$80.05 to \$80.20, 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:

Lynnette C. Fallon, as attorney 12/05/2022 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.