SEC Form 4	
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Instruction 1(b).

FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549 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	dress of Reporting) Person [*]	2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC ACLS		5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
PUMA MA	<u>IRY G</u>			X	Director	10% Owner				
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE (Street)			3. Date of Earliest Transaction (Month/Day/Year) 06/12/2023	x	Officer (give title below) Executive Cha	Other (specify below) airperson				
			4. If Amendment, Date of Original Filed (Month/Day/Year) 06/12/2023	6. Individual or Joint/Group Filing (Check Applicable Line)						
				X	Form filed by One Re	eporting Person				
BEVERLY	МА	01915			Form filed by More the Person	nan One Reporting				
(City)	(State)	(Zip)	Rule 10b5-1(c) Transaction Indication							
				Check this box to indicate that a transaction was made pursuant to a contract, instruction or written plan that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.						

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code (8)		Disposed Of (D) (Instr. 3, 4 and 5)			Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 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	06/12/2023		S		11,800	D	\$181.8 ⁽¹⁾	258,280 ⁽²⁾⁽³⁾	D	
Common Stock								5,000	Ι	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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code (8)			vative rities hired r osed) r. 3, 4		Date Exercisable and Xpiration Date Amount of Securities Underlying Derivative Security (Instr. 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	v	(A)	(D)	Date Exercisable	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 \$181.78 to \$182.27, 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 on June 12, 2023, 67,420 shares were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.

3. This number of securities owned after the reported sale has been amended. See Remarks.

Remarks:

Due to an administrative error, the reporting person's Form 4 filings originally made on June 12, 2023, June 7, 2023 and May 25, 2023 inadvertently failed to reflect the reporting person's donation of 4,778 shares as a gift to a Morgan Stanley Charitable Account, a donor advised fund, entitled MS GIFT EIVIND LANGE MARY PUMA DAF (the "Gift"). The Gift was made on May 18, 2023, and timely reported in a Form 4 filed by the reporting person on that date.

Lynnette C. Fallon, as attorney	00/08/2023
<u>in fact for Mary G. Puma</u>	03/00/2023

** 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.