FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
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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

1. Name and Address of Reporting Person* BREWER KEVIN J (Last) (First) (Middle)					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS] 3. Date of Earliest Transaction (Month/Day/Year)											all app Direc	blicable) tor er (give title	ng Person(s) to I 10% O Other (i below)		wner
C/O AXCELIS TECHNOLOGIES, INC.				05/15/2023										EVP	& Chief F	inan	cial Offic	er		
108 CHERRY HILL DRIVE				4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									i. Indiv ine)	/idual o	l or Joint/Group Filing (Check Applicab				
(Street) BEVERI	LY MA	A 0	191	5										X		filed by On filed by Mo on		I		
(City) (State) (Zip)					Ru	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																			
Date				2. Transaction Date (Month/Day/Ye	Execution (ar)		on Date,		3. Transaction Code (Instr. 8)				Acquired (A) o (D) (Instr. 3, 4 a		d 5)	5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code	v	A	mount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)				
Common Stock				05/15/2023					A			3,005	A	\$0.00) ⁽¹⁾	39,282 ⁽²⁾			D	
Common	05/15/202	23				F			1,928	D ⁽³⁾	\$127.	99(4)	37,354 ⁽⁵⁾			D				
Common	Stock			05/15/202	23				F			1,844	D ⁽³⁾	\$127.	99(4)	35,510 ⁽⁶⁾			D	
Common Stock 05/16/2					3				S			6,505	D	\$130.	.84 ⁽⁷⁾ 29,00		,005 ⁽⁸⁾		D	
	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)	erivative Conversion Date Execution Date, ecurity or Exercise (Month/Day/Year) if any					Transaction Code (Instr.		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		oiration	ercisable and Date ylYear)		7. Title Amou Secur Under Deriva Secur (Instr.	nt of ities lying ative	Deri Seci (Inst	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)	Beneficial Ownership t (Instr. 4)
					Code	v	(A)) (D)		Date Exercisab		Expiration Date	Title	or Number of Shares	1					

Explanation of Responses:

- 1. In this grant under the Company's 2012 Equity Incentive Plan, the executive may earn shares of common stock, ranging from zero to 150% of the granted units. The shares are earned based on the achievement of 2023 performance goals. Assuming continuation of employment, 100% of the earned shares will vest on February 28, 2024. Unearned restricted stock units will forfeit on February 28, 2024.
- 2. Of the shares held after the grant on May 15, 2023, 32,777 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. These shares were withheld by the Company to cover the tax withholding obligations of the executive on the vesting of restricted stock units.
- 4. Represents the closing price of the common stock on the date of the tax withholding.
- 5. Of the shares held after this first tax withholding forfeiture (and related vesting) on May 15, 2023, 28,432 shares were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.
- 6. Of the shares held after this second tax withholding forfeiture (and related vesting) on May 15, 2023, 24,275 shares were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.
- 7. The price reported in Column 4 is a weighted-average price. These shares were sold in multiple transactions at prices ranging from \$130.70 to \$130.94, 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.
- 8. Of the shares held after this sale on May 16, 2023, 24,275 shares were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.

Remarks:

<u>Lynnette C. Fallon, as</u> <u>attorney in fact for Kevin J.</u> <u>Brewer</u>

05/16/2023

** 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.	