FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APP	ROVAL							
OMB Number:	3235-0287							
Estimated average burden								
hours per response:	0.5							

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

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

							` '			Hent C									
1. Name and Address of Reporting Person* BREWER KEVIN J					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC ACLS									(Check	all app Direc	p of Reporti blicable) tor er (give title		erson(s) to 10% O Other (wner
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC.				3. Date of Earliest Transaction (Month/Day/Year) 05/16/2023									X	belov			below)	, ,	
108 CHERRY HILL DRIVE					4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street) BEVERLY MA 01915			5										Х	X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(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														
							ditions of Rule	`											
		Table	I - N	lon-Deriva	tive S	ecu	rities	AC	quire	d, Di	sposed o	t, or I	3enetic	cially	/ Owr	ned			
Date				2. Transaction Date (Month/Day/Ye	Execution		on Date,		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			nd 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	Amount	(A) or (D)	Price			ted action(s) 3 and 4)						
Common Stock 05/16/20					:3				F		699	D ⁽¹⁾	\$129.	92(2)	28,306 ⁽³⁾			D	
Common Stock 05/17/202						3			F		970	D ⁽¹⁾	\$137.	69(2)	27,336 ⁽⁴⁾			D	
		Tab	ole I	l - Derivati (e.g., pu							posed of, convertil				Owne	ed			
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 ecution Date, ny onth/Day/Year)	4. Transa Code (8)		r. of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)					7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4		nt er				10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)

Explanation of Responses:

- 1. These shares were withheld by the Company to cover the tax withholding obligations of the executive on the vesting of restricted stock units.
- 2. Represents the closing price of the common stock on the date of the tax withholding.
- 3. Of the shares held after this tax withholding forfeiture (and related vesting) on May 16, 2023, 22,699 shares were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.
- 4. Of the shares held after this tax withholding forfeiture (and related vesting) on May 17, 2023, 20,513 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> attorney in fact for Kevin J. 05/18/2023 <u>Brewer</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.