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

OMB APPROVAL 3235-0287 Estimated average burden hours per response: 0.5

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						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC ACLS									tionship of Reporting all applicable) Director Officer (give title			erson(s) to Is 10% O Other (wner
(Last)	,	(First) (Middle)					3. Date of Earliest Transaction (Month/Day/Year)									w) Thief I	Finar	below)	er
108 CHERRY HILL DRIVE						06/20/2021													
(Street) BEVERLY MA 01915				4. If <i>i</i>	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person					
														Form filed by More than One Reporting Person					
(City)	(St		Zip)	D	4:			•								1			
			I - NO					ACC	_	ı, Dis	sposed of	-		iany			_		
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day			·	Execution			3. Transaction Code (Instr. 8)				and 5) Securi Benefi		ties Following (I)		m: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership			
								Code	v	Amount	(A) or (D)	Price	Tran		action(s) 3 and 4)			(Instr. 4)	
Common Stock 08/20					021				S		9,409	D	\$49.	1(1)	⁽¹⁾ 77,642 ⁽²⁾			D	
Common Stock 08/27/20					021				S		8,656	D	\$50.3	68,986(2)		,986 ⁽²⁾	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)	titve Conversion Date Execution Date, ity or Exercise (Month/Day/Year) if any		ution Date,	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expira	e Exerc ation D h/Day/		e and 7. Title and Amount of Securities Underlying Derivative Security (Ins 3 and 4)		8. Price of Derivative Security (Instr. 5)		9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	у	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	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 \$49.00 to \$49.22, 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 August 26, 2021 and August 27, 2021, 50,889 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to
- 3. The price reported in Column 4 is a weighted-average price. These shares were sold in multiple transactions at prices ranging from \$50.00 to \$50.80, 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 08/27/2021 in fact for Kevin J. Brewer

** Signature of Reporting Person

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.