FORM 4

obligations may continue. See

Instruction 1(b)

Check this box if no longer subject to Section 16. Form 4 or Form 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington D.C. 20549

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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. Name and Address of Reporting Person* BREWER KEVIN J				2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]									Check	tionship of Reporting all applicable) Director Officer (give title		g Person	p Person(s) to Issue 10% Owne Other (spe			
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 02/28/2019										X	below) EVP & Chief Final			below)	
(Street) BEVERLY MA 01915 (City) (State) (Zip)					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							
		Tabl	e I - Nor	n-Deriva	ative	Se	curitie	s Acq	uired,	Dis	posed o	f, o	r Ben	efici	ally (Owne	ed			
Date				Transaction ate 2A. Deemed Execution Date, if any (Month/Day/Year)		Date,	Transaction Disposed Code (Instr. 5)		ties Acquired (A) d Of (D) (Instr. 3, 4			4 and Second Sec		cially d 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		Reported Transaction(s) (Instr. 3 and 4)				(111501.4)	
Common Stock 02/28/					/2019				F ⁽¹⁾		2,127	7	D	\$0.00(2		80,406 ⁽³⁾		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) 2. Conversion or Exercise Price of Derivative Security 3. Transaction Date Executio if any (Month/Day/Year) Which is the property of the price of Derivative Security 3. Transaction Date (Month/Day/Year)			Date,	Date, Transaction Code (Instr.		of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		ount		ivative urity tr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

Explanation of Responses:

- 1. On February 5, 2019, the Axcelis Technologies, Inc. Compensation Committee determined that restricted stock units with performance vesting terms granted in May 2018 had been earned as to 100% of the units. In accordance with the terms of these grants, on February 28, 2019, 50% of the earned shares vested. As agreed with the executive, the shares issued to the executive on the vested shares were reduced by a number of shares having a value equal to the executive's tax withholding obligation with respect to the vested shares.
- 2. These shares were withheld by the Company to cover the tax withholding obligations of the executive on the vesting of restricted stock units on February 28, 2019.
- 3. Of the shares beneficially owned by the executive on February 28, 2019, 47,955 shares were issuable on vesting of restricted stock units which are subject to forfeiture.

Remarks:

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

03/01/2019

** 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.