AXCELIS TECHNOLOGIES INC

Form 4

February 15, 2017

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB Number: 3235-0287

Estimated average

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Check this box if no longer subject to Section 16.

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Expires: January 31, 2005

0.5

OMB APPROVAL

Form 4 or Form 5 obligations may continue. See Instruction

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

response...

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * BREWER KEVIN J			2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)		
	(First) (Middle) LIS TECHNOLOGIES, CHERRY HILL DRIVE		3. Date of Earliest Transaction (Month/Day/Year) 02/13/2017	Director 10% Owner _X_ Officer (give title Other (specify below) EVP & Chief Financial Officer		
BEVERLY, N	(Street) MA 01915		4. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person		

(City)	(State)	(Zip) Tabl	le I - Non-D	erivative (Securi	ties Acqu	ired, Disposed of	, or Beneficiall	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code V	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)	(Instr. 4)	
Common Stock	02/13/2017		M	18,876	A	\$ 3.72	80,512 (1)	D	
Common Stock	02/13/2017		S	14,311	D	\$ 16.4	66,201	D	
Common Stock	02/13/2017		S	1,650	D	\$ 16.45	64,551	D	
Common Stock	02/13/2017		S	2,915	D	\$ 16.5	61,636	D	

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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SEC 1474 (9-02)

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 3A. Deemed (Month/Day/Year) Execution Date, if any (Month/Day/Year)		4. 5. Number TransactionDerivative Code Securities (Instr. 8) Acquired (or Dispose (D) (Instr. 3, 4) and 5)		ive Expiration Date ies (Month/Day/Ye ed (A) osed of		e	7. Title and Underlying (Instr. 3 and	Securities
				Code V	(A) (I		Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (right to buy)	\$ 3.72	02/13/2017		M	18,876		07/16/2016	07/16/2019	Common Stock	18,876

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

BREWER KEVIN J C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE BEVERLY, MA 01915

EVP & Chief Financial Officer

Signatures

Lynnette C. Fallon, as attorney in fact for Kevin J.

Brewer 02/15/2017

**Signature of Reporting Person Date

Explanation of Responses:

- * 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).
- (1) Of the shares held as of February 13, 2017, 40,000 were issuable on vesting of restricted stock units granted under the 2012 Equity Incentive Plan and are subject to forfeiture.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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