FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 2004

OMB APPROVAL									
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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 Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

					or S	ectio	n 30(h)	of the Í	nvestme	nt Coi	mpany Act	of 19	40							
1. Name and Address of Reporting Person* BREWER KEVIN J					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]										Check a	II app	olicable)	ng Person(s) to I		
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 05/16/2016									Λ	below) below) EVP & Chief Financial Officer				
(Street) BEVERLY MA 01915 (City) (State) (Zip)						Amer	ndment,	, Date o	f Origina	l Filed	i (Month/Da	ay/Ye	ar)		ine) X	Form	r Joint/Group n filed by One n filed by Mor on	Repo	orting Pers	on
		Tabl	e I - No	n-Deriv	ative	Sec	uritie	s Acc	quired	, Dis	posed o	f, oı	r Ben	eficia	ally O	wne	ed			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					Execution Date,		3. Transa Code (8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4				nd 5) S B C	5. Amount of Securities Beneficially Owned Following Reported		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	. т	ransa	action(s) 3 and 4)			(11)
Common	Stock			05/16/	2016				A		120,00	0	A	\$0.0	206,546		D			
Common	Stock			05/16/	2016				A		40,000)	A	\$0.0	00(2)	24	246,546 ⁽³⁾ D			
		Та									sed of, onvertib					ned				
1. Title of Derivative Security (Instr. 3) 2. Conversion or Exercise Price of Derivative Security			3A. Deem Execution if any (Month/Da	on Date, Transact Code (In:		nstr.	of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Expiration (Month/L	on Dat		Amo Sec Und Deri Sec and	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		8. Pric Deriva Securi (Instr.	tive ty	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	O Fe D oi (I)	0. Dwnership orm: Direct (D) r Indirect) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)

Explanation of Responses:

- 1. These shares are issuable on vesting of restricted stock units granted under the Company's 2012 Equity Incentive Plan. Assuming continuation of employment, 25% of these restricted stock units will vest on May 16, 2017, May 16, 2018, May 16, 2019 and May 16, 2020. The executive has agreed that a number of shares, having a value equal to the required tax withholding at vesting, will be withheld from the shares issued on each yest date.
- 2. These shares are issuable on vesting of restricted stock units granted under the Company's 2012 Equity Incentive Plan. Assuming continuation of employment, some or all of these restricted stock units will vest on February 15, 2017 based on performance vesting criteria. Unvested restricted stock units will forfeit on that date. The executive has agreed that a number of shares, having a value equal to the required tax withholding at vesting, will be withheld from the shares issued on the vest date.
- 3. Of the shares held as of May 16, 2016, 160,000 were issuable on vesting of restricted stock units granted to the executive under the 2012 Equity Incentive Plan and are subject to forfeiture.

Remarks:

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

** Signature of Reporting Person

Date

05/17/2016

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.