FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

OMB APPROVAL OMB Number: 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).

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 Reportin all applicable) Director Officer (give title		g Person(s) to Issuer 10% Owner Other (spec		wner	
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 02/12/2013									X	belov						
(Street) BEVERI (City)	.Y M.	A 0)1915 Zip)			4. If Amendment, Date of Original Filed (Month/Day/Year) 02/13/2013									Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					Execution Date,		n Date,	Transaction Dispose Code (Instr. 5)		Disposed	ities Acquired (A d Of (D) (Instr. 3,				Securities I Beneficially		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		Transaction(s) (Instr. 3 and 4)				(
Common Stock													81,546 ⁽¹⁾		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)	Derivative Conversion Date Execution or Exercise (Month/Day/Year) if any		Date, y/Year)	4. Transaction Code (Instr. 8)		of Derive Secur Acqui (A) or Dispo of (D) (Instr. and 5	of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Date Exercisable and Expiration Date Month/Day/Year) Date Expiration Date Expiration Date		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amoun or Numbe of		ount nber	t r		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Own Forn Direc or In (I) (Ir		11. Nature of Indirect Beneficial Ownership (Instr. 4)	

Explanation of Responses:

1. Mr. Brewer's holdings of common stock have been reduced by 1 share to correct a record keeping error in the number of shares withheld for taxes on previous Restricted Stock Unit vesting events.

Lynnette C. Fallon, as attorney 01/29/2014 in fact for Kevin J. Brewer

** 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.