FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

OMB APPROVAL								
OMB Number:	3235-0287							
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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).

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*				2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]						5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
<u>BREW</u>	ER KEV	<u>lN J</u>		-	1/10.	LLIU I	LiC.	IIIVOLOC	IIEO IIVC	L ACLS	1	Director		10% C	wner	
,				-							x		give title		specify	
(Last)	(F	irst)	(Middle)		3. Date of Earliest Transaction (Month/Day/Year)							below) below)				
C/O AXCELIS TECHNOLOGIES, INC.					07/15/2013 EVP, Global Opera					Operations						
108 CHE	RRV HII I	DRIVE														
108 CHERRY HILL DRIVE				4	4. If Amendment, Date of Original Filed (Month/Day/Year)						6. Inc	6. Individual or Joint/Group Filing (Check Applicable				
(Street)							Date	or original rine	a (.,, . oa.,	Line)		O. Oup 1	mig (Giloon / ip	piiodoio	
BEVERI	· V M	IA	01915								<u> </u>	Form fil	ed by One F	Reporting Perso	n	
DEVERI	_1 IV	IA	01915										ed by More	than One Repo	rting	
				_								Person				
(City)	(S	tate)	(Zip)													
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																
Da				Execution Day/Year) if any		A. Deemed 3. Trans any Code North/Day/Year)					Beneficial Owned Fo	s Form (D) or ollowing (I) (In	6. Ownership Form: Direct D) or Indirect I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
								Code V	Amount	(A) or (D)	Price	Reported Transaction (Instr. 3 and			(Instr. 4)	
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																
					3, Cai			-		1		8. Price of			_	
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	Code (Transaction Code (Instr. 8)		tion Derivative I		Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)	Ownershi Form: Direct (D) or Indirec (I) (Instr. 4	Beneficial Ownership t (Instr. 4)	
				1							Amount		(Instr. 4)	(5)		
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	or Number of Shares					
Stock option (right to buy)	\$1.99	07/15/2013		A ⁽¹⁾		225,000		07/15/2017 ⁽²⁾	07/15/2020	Common Stock	225,000	\$0	225,000	D		

Explanation of Responses:

- $1.\ Granted\ pursuant\ to\ the\ Axcelis\ Technologies,\ Inc.\ 2012\ Equity\ Incentive\ Plan.$
- 2. These options will vest as to 25% of the shares on each of July 15, 2014, July 15, 2015, July 15, 2016 and July 15, 2017, if the officer remains in the service of the Company on such vesting date, provided that such exercisability shall accelerate (A) so that 50% of such shares are exercisable beginning on the date that the Common Stock has had a closing price of \$2.50 or more for 20 consecutive trading days and (B) so that 100% of such shares are exercisable beginning on the date that the Common Stock has had a closing price of \$3.00 or more for 20 consecutive trading days.

07/16/2013 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.