FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
OMB Number:	3235-028									

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 s	Section	on 30(n)	of the I	nvestme	nt Co	mpany Act	of 194	40						
1. Name and Address of Reporting Person*  BREWER KEVIN J					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ ACLS ]										Check all ap Dire	plicable) ctor	10% Owner Other (specify below) al Operations		Owner
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 02/12/2013									^ belo	,				
(Street) BEVERLY MA 01915 (City) (State) (Zip)				4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								ne) X For For	ual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tabl	e I - Non	-Deriva	ative	Se	curitie	s Ac	quired	, Dis	posed o	f, or	Bene	eficia	ally Own	ed			
1. Title of Security (Instr. 3)  2. Transa Date (Month/D				Execut Day/Year) if any		Executio if any	a. Deemed ecution Date, any onth/Day/Year)		Transaction Disposed Code (Instr. 5)		ities Acquired (A d Of (D) (Instr. 3,			nd Secu Bene Owne	ficially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
								Code	v	Amount		(A) or (D)	Price	Trans	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)	
Common Stock 02/12				/2013			S		8,500 I		D	\$1	.3	81,547					
		Та	ble II - D (e								osed of, onvertib				y Owned	1	,		
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/Yea	Date,	Code (Instr.				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		str. 3	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owner Form: Direct or Ind (I) (Ins	(D) irect	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	Amo or Num of Sha	ber					

**Explanation of Responses:** 

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

02/13/2013

\*\* 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.