FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Inglon, D.C. 20549	OMB APPROVAL

- 1	_	_							
	OMB Number:	3235-0287							
	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 ]							ck all applica Director	10% Owner		ner		
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC.					3. Date of Earliest Transaction (Month/Day/Year) 11/17/2008						below)	(give title Other (s below) Manufacturing Operation		elow) '	´		
108 CHERRY HILL DRIVE					4. If Amendment, Date of Original Filed (Month/Day/Year)						6 In	6. Individual or Joint/Group Filing (Check Applicable					
(Street) BEVERI (City)		IA tate)	01915 (Zip)		4. If Amendment, Date of Original Filed (Month/Day/Year)							Form file	rm filed by One Reporting Person rm filed by More than One Reporting				
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																
1. Title of Security (Instr. 3)  2. Transa Date (Month/D				е	Execution Date		Code (Instr.			5. Amoun Securities Beneficial Owned Fo	ly (	6. Owners Form: Dire D) or Indii I) (Instr. 4)	ect Ir rect B	7. Nature of ndirect Beneficial Ownership			
								Code V	Amount	(A) o (D)	r Price	Transactio				(Instr. 4)	
	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)	rivative Conversion Date Execution Da curity or Exercise (Month/Day/Year) if any		Execution Date,	Code (Instr.		Derivative		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction	Own For Dire or II (I) (I	nership m: ect (D) ndirect Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)	ii(ə)			
Stock option (right to buy)	\$0.7	11/17/2008		A <sup>(1)</sup>		125,000		11/17/2012 <sup>(2)</sup>	11/17/2018	Common Stock	125,000	\$0	125,000	)	D		

## **Explanation of Responses:**

- ${\bf 1.}~Granted~Pursuant~to~the~Axcelis~Technologies,~Inc.~2000~Stock~Plan.\\$
- 2. Exercisable as to 25% of the total shares on each of 11/17/2009, 11/17/2010, 11/17/2011 and 11/17/2012, provided that the common stock closes at or above \$4.00 per share for 20 consecutive trading days on one or more occasions prior to exercise.

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

11/18/2008

\*\* 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.

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