FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## Washington, D.C. 20349

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

l	OMB APPRO	VAL
	OMB Number:	3235-0287
l	Estimated average burde	en
l	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  (Last) (First) (Middle)  C/O AXCELIS TECHNOLOGIES, INC.  108 CHERRY HILL DRIVE					Suer Name and Ticker or Trading Symbol     AXCELIS TECHNOLOGIES INC [ ACLS ]      Date of Earliest Transaction (Month/Day/Year)     07/01/2005											all app Direct Office below	er (give title		10% C Other ( below)	wner (specify
(Street) BEVERLY MA 01915  (City) (State) (Zip)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person     Form filed by More than One Reporting Person					
		Tabl	e I - Nor	n-Deriv	ative	Se	curitie	s Acq	juired,	Dis	posed o	f, or	Bene	eficia	ally (	Owne	ed			
1. Title of Security (Instr. 3)  2. Transac Date (Month/Date)					Day/Year)   Exec		Execution If any	A. Deemed xecution Date, any Month/Day/Year)		Transaction Disposed Code (Instr. 5)		ties Acquired (A d Of (D) (Instr. 3,			4 and Se		Securities Beneficially		wnership m: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code	v	Amount		(A) or (D)	Price		Transaction(s) (Instr. 3 and 4)				(11341.4)
Common Stock 07/01							005 A 54,427 A \$0 <sup>(1)</sup>		5	54,427 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)	erivative ecurity nstr. 3)  Conversion or Exercise Price of Derivative Security  Date (Month/Day/Year)  Date (Month/Day/Year)  Execution Date, if any (Month/Day/Year)  (Month/Day/Year)  8)		Transa Code (	of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Date Expiration  Expiration Date (Month/Day/Year)  Date Expiration  Exercisable Date			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)  Amoun or Numbe of Title Shares			nt er		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	F	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			

## **Explanation of Responses:**

1. These shares are issuable on restricted stock units granted under the Company's 2000 Stock Plan. 1/3 of the shares will issue upon vesting on each of July 1, 2007, 2008 and 2009, provided the reporting person is employed by Axcelis Technologies, Inc. on those dates. No voting or other stockholder rights attach to the units until the shares are issued.

<u>Lynnette C. Fallon, as attorney-</u> 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.

- $^{\star}$  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.