FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
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Check this box if no longer subject to Section 16. Form 4 or Form 5	STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP
obligations may continue. See	
Instruction 1(b).	Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

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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* <u>BREWER KEVIN J</u>						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]									Check	ionship of Reporting all applicable) Director Officer (give title		10	% Owner	ner
	(Fii CELIS TEC RRY HILL	HNOLOGIES, I	Middle)			3. Date of Earliest Transaction (Month/Day/Year) 07/01/2007									X	belov	N) .	be	Other (specify below) ng Operations	
(Street) BEVERI (City)	.Y M.	Α (01915 (Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)							Indivine)	Forn	or Joint/Group Filing (Check Applicable m filed by One Reporting Person m filed by More than One Reporting son					
		Tabl	e I - No	n-Deriv	ative	Sec	curitie	s Ac	quired,	Dis	posed o	f, o	r Ben	efici	ally	Owne	ed			
1. Title of Security (Instr. 3) 2. Trans Date (Month/I				Execut eay/Year) if any		xecution any	a. Deemed lecution Date, any onth/Day/Year)				rities Acquired (A) ed Of (D) (Instr. 3, 4			nd	Securities Beneficially		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	t of Indi ct Benefi Owner	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
							Code	v	Amount		(A) or (D) Price		Trans (Instr.		action(s) 3 and 4)			•		
Common Stock				07/01	/01/2007				F		5,760(1)		D	\$6.48(2)		.8 ⁽²⁾ 91,834 ⁽³⁾		D		
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																			
Derivative Conversion Date Execution Date, Security or Exercise (Month/Day/Year) if any				4. Transa Code (8)			ative rities ired sed	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		ount		vative urity r. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	of Indi Benefi Owner ct (Instr.	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	of	mber ares						

Explanation of Responses:

- 1. Shares withheld by the Company equal to tax liability of the executive officer incident to the vesting of restricted stock units issued in accordance with Rule 16b-3.
- 2. Represents the closing price of the common stock at vesting (July 2, 2007).
- 3. Of the shares held as of July 1, 2007, 77,952 were issuable on vesting of restricted stock units granted the executive under the 2000 Stock Plan and are subject to forfeiture. A portion of these shares will be withheld by the Company on vesting to satisfy tax withholding requirements.

Lynnette C. Fallon, as attorney- 12/14/2007 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.