FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
OMB Number:	3235-02									

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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

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1. Name and Address of Reporting Person* FLYNN MATTHEW P					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]										5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner				
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE				12/3	3. Date of Earliest Transaction (Month/Day/Year) 12/31/2007									A belo	EVP, Custor	below ner Operation			
(Street) BEVERLY MA 01915 (City) (State) (Zip)					4. If Amendment, Date of Original Filed (Month/Day/Year)										Individual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tabl	le I - Noi	n-Deriv	ative	Sec	uritie	s Acc	quired,	Dis	posed o	f, o	r Ben	eficia	ally Owr	ed			
1. Title of Security (Instr. 3) 2. Transa Date (Month/Date)					Execution Date Day/Year) if any		Execution Date,		Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)				nd Secu Bene Own	nount of rities ficially ed Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
								Code	v	Amount		(A) or (D)	Price		rted saction(s) : 3 and 4)		(Instr. 4)		
Common Stock 12/31/					/2007			J ⁽¹⁾	V	868		A	\$3.	91 1	53,584 ⁽²⁾	D			
		Та	able II - I)					-			sed of, onvertib				y Owne	ł			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/Da	Date,	4. Transac Code (Ir 8)				6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)			8. Price of Derivative Security (Instr. 5)		Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

Explanation of Responses:

- 1. Purchased under the Axcelis Technologies, Inc. Employee Stock Purchase Plan, qualified under I.R.C. Section 423.
- 2. Of the shares held as of December 31, 2007, 136,471 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.

<u>Lynnette C. Fallon, as attorney-</u> in-fact for Matthew P. Flynn

** Signature of Reporting Person Date

 $Reminder: Report \ on \ a \ separate \ line \ for \ each \ class \ of \ securities \ beneficially \ owned \ directly.$

- * 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.