FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPROVAL											
	OMB Number:	3235-0287										
l	Estimated average burden											
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* FLYNN MATTHEW P (Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS] 3. Date of Earliest Transaction (Month/Day/Year) 06/30/2007] "	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify below) below) SVP, Customer Operations				
(Street) BEVERLY MA 01915 (City) (State) (Zip)					4.11	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 - Noi	n-Deriv	ative	Se	curitie	s Ac	quired	, Dis	posed o	f, or	Bene	efici	ally Own	ed			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)						Execution Date,			3. Trans Code 8)	ties Acquired (A) I Of (D) (Instr. 3, 4			nd Secui Bene	icially d Following	6. Ownership Form: Direct (D) or Indirec (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
						Code	v	Amount		A) or D)	Price	Trans	action(s) 3 and 4)		(11311.4)				
Common Stock 06/30/2							2007		J ⁽¹⁾	V	571		Α	\$5.	52 1	108,327			
Common Stock 07/16/2									A	A 50,72		5	Α	\$0	(2) 1	59,052	D		
		Та									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. Deem Execution if any (Month/Da	Date,	Code (Inst		on of		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)			8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownersh Form: Direct (D) or Indirec (I) (Instr.	Beneficial Ownership t (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	or	ount nber res					

Explanation of Responses:

- 1. Purchased under the Axcelis Technologies, Inc. Employee Stock Purchase Plan, qualified under I.R.C. Section 423.
- 2. These shares are is suable on restricted stock units granted under the Company's 2000 Stock Plan. 1/3 of these units will vest on July 16, 2009, 2010 and 2011.

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

** 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.