FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
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0.5

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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 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 (Street)					3. D. 11/0	Susuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS] 3. Date of Earliest Transaction (Month/Day/Year) 11/08/2010 4. If Amendment, Date of Original Filed (Month/Day/Year)] (CI	neck all ap Dire X Office belo E ndividual (e)	plicable) ctor cer (give title w) VP, Custon or Joint/Group	or 10% Owner (give title Other (specify below) P, Customer Operations Joint/Group Filing (Check Applicable	
BEVERI (City))1915 Zip)											For	Form filed by One Reporting Person Form filed by More than One Reporting Person			
		Tabl	e I - No	n-Deriv	ative	Se	curition	es Ac	quired,	Dis	posed o	f, or	Bene	eficia	lly Own	ed		
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					Execution E ay/Year) if any		execution Date, fany		Transaction Code (Instr. 5					Secui Bene	icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount		A) or O)	Price	Trans	action(s) 3 and 4)		(11311. 4)
Common Stock 11/08/2					/2010		S		11,769	9	D	\$2.6	1 1	35,270	D			
Common Stock 11/08/2				/2010		S		3,000		D	\$2.6	2 1	32,270	D				
Common Stock 11/08/2					3/2010				S		231		D \$2.63		3 13	32,039(1)	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)	or Exercise Price of Derivative Security (Month/Day/Year) if any (Month/Day/Year) 8)		Transa Code (I	Instr.	of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Exercisable Date		Amount of Securities Underlying Derivative Security (Instr. and 4) Amour or Numbe of		ount	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)			

Explanation of Responses:

1. Of the shares held as of November 8, 2010, 55,978 were issuable on vesting of restricted stock units granted 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> <u>in fact for Matthew P. Flynn</u>

11/09/2010

** 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.