FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGE	S IN BENEFICIAL	OWNERSHIP

OMB APPRO	DVAL
OMB Number:	3235-0287
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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* JENNINGS WILLIAM C				2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]										tionship of Reporting P all applicable) Director		10%	Owner		
	C/O AXCELIS TECHNOLOGIES, INC.			3. Date of Earliest Transaction (Month/Day/Year) 07/16/2007											Office	er (give title v)	Otho belo	er (specify w)	
108 CHERRY HILL DRIVE				4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street) BEVERI	Y M	Α ()1915												X		n filed by Moi	e Reporting Pe re than One R	
(City)	(St	ate) (Zip)																
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					ay/Year) Execution		ution Date,				ties Acquired (A) d Of (D) (Instr. 3,			4 and Sec Ber Ow		ount of ties cially I Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount		(A) or (D)	Price	. [Reported Transaction(s) (Instr. 3 and 4)			(iiisti. 4)
Common Stock			07/16	07/16/2007				A		16,10	3	A	\$0	\$0 ⁽¹⁾		6,693	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) 2. Conversion or Exercise Price of Derivative Security 3. Transaction Date (Month/Day/Year) if any (Month/Day Security)		Date, sy/Year)	4. Transaction Code (Instr. 8)			ative rities ired osed	Expiration Da (Month/Day/Y		e	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amoun or Numbe of Title Shares		ount nber			9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownershi Form: Direct (D) or Indirec (I) (Instr. 4	Beneficial Ownership (Instr. 4)		

Explanation of Responses:

1. These shares are restricted stock granted under the Company's 2000 Stock Plan. The shares shall vest on January 16, 2008.

Lynnette C. Fallon, as attorney- 07/18/2007 in-fact for William C. Jennings

** 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.