Instruction 1(b).

FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSH	HР
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OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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>JENNINGS WILLIAM C</u>						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]									onship o all applic Directo	able)	g Pers	son(s) to Issu 10% Ow		
(Last)	`	irst)	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 07/15/2011 Officer (give title below) below) Other (specify below)															
108 CHERRY HILL DRIVE					4. 1	If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable						
(Street) BEVERLY MA 01915													X Form filed by One Reporting Person Form filed by More than One Reporting Person							
(City)	(S	tate)	(Zip)																	
		Tab	le I - Nor	n-Deriv	vativ	e Se	curities	Ac	quired, D	isp	osed o	f, or Be	neficia	lly O	wned					
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					Execution D			Code (In:					and Securitie Beneficia		es For ally (D) Following (I) (: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership		
							Code	,	Amount	(A) oi (D)	Price	1	reported Fransacti Instr. 3 a	ion(s)			(Instr. 4)			
	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		3A. Deemee Execution I if any (Month/Day	Date,	4. Transa Code (l 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exer Expiration E (Month/Day/	ate		nd 7. Title and Am of Securities Underlying Derivative Secu (Instr. 3 and 4)		Derivative Security		9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	Ownersh Form: Direct (D or Indirec (I) (Instr.	Ownership	Beneficial Ownership t (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisable		opiration	Title	Amount or Number of Shares	1						
Stock option (right to buy)	\$1.6	07/15/2011			A ⁽¹⁾		40,000		01/12/2012	07	7/15/2021	Common Stock	40,000		\$0	40,000	0	D		

Explanation of Responses:

1. Granted pursuant to the Axcelis Technologies, Inc. 2000 Stock Plan.

Lynnette C. Fallon, as attorney in fact for William C. Jennings

07/18/2011

** 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.