FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-028								
Estimated average I	burden								

Check this box if no longer subject to	J
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

hours per response: 0.5

1. Name and Address of Reporting Person* <u>JENNINGS WILLIAM C</u>					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]									heck a		licable)	•	Person(s) to Issuer 10% Owner		
	C/O AXCELIS TECHNOLOGIES, INC.				3. Date of Earliest Transaction (Month/Day/Year) 07/15/2008										Office below	er (give title v)		Other (specify below)		
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 (01915										X	Form filed by One Reporting Pers Form filed by More than One Rep Person						
(City)	(St	ate) (Zip)																	
		Tabl	le I - Nor	-Deriv	ative	Sec	curitie	s Acc	quired,	Dis	posed o	f, or	Bene	eficia	lly O	wne	d			
1. Title of Security (Instr. 3) 2. Transa Date (Month/D					Day/Year) E		2A. Deemed Execution Date, if any (Month/Day/Year)		Code (Transaction Dispo		curities Acquired (A) sed Of (D) (Instr. 3,			4 and Sec Ber Ow		ially 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	_ т	Reported Transaction(s) (Instr. 3 and 4)				(msu. 4)			
Common Stock					07/15/2008				A		20,492		A \$00) ⁽¹⁾ 57,1		7,185	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 (Instr. 3) 3. Transaction Date Executior if any (Month/Day/Year)			Date, Transaction Code (Instr.		of		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)			8. Price Derivative Security (Instr. 5)		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owne Form: Direct or Ind (I) (Ins	: t (D) lirect	Beneficial Ownership t (Instr. 4)		
					Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title	or Nun of							

Explanation of Responses:

1. These shares are restricted stock granted under the 2000 Stock Plan and will vest on January 15, 2009.

Lynnette C. Fallon, as attorney 07/16/2008 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.