FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHAI	NGES IN BE	NEFICIAL (OWNERSHIP

OMB APPRO	VAL
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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]										olicable)	g Person(s) to 10%	Issuer Owner	
	O AXCELIS TECHNOLOGIES, INC.				3. Date of Earliest Transaction (Month/Day/Year) 09/08/2003									Offic belov	er (give title w)	Othe below	r (specify v)	
55 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 Mor	e Reporting Pe re than One Re	
(City)	(St	ate) (Zip)															
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day)					Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4 and 1)		and 5) Secur Benet		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) o (D)	Price	е	Trans	action(s) 3 and 4)		(1130.4)
Common Stock 09/08/20				2003		P		3,000	A	\$10).1167		5,000	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	on Date,	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exerci Expiration Dat (Month/Day/Ye		ite	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		Deri Sec (Inst		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)
					Code	v	(A)	(D)	Date Exercis	sable	Expiration Date	Title	Amour or Numbe of Shares	er				

Explanation of Responses:

Lynnette C. Fallon, as attorneyin-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.