SEC Form 4	
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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL OMB Number: 3235-0287 Estimated average burden hours per response: 0.5

1. Name and Address of Reporting Person* <u>FLETCHER R JOHN</u>			2. Issuer Name and Ticker or Trading Symbol <u>AXCELIS TECHNOLOGIES INC</u> [ACLS]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
					Director	10% Owner			
(Last) 108 CHERRY) (First) (Middle) CHERRY HILL DRIVE		3. Date of Earliest Transaction (Month/Day/Year) 09/15/2004		Officer (give title below)	Other (specify below)			
			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street) BEVERLY	MA	01915		X	Form filed by One Reporting Person				
					Form filed by More th Person	nan One Reporting			
(City)	(State)	(Zip)							
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned									

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code (8)					Securities	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	Transaction(s) (Instr. 3 and 4)		(iiisti: 4)
Common Stock	09/15/2004		Р		2,000	A	\$8.06	5,000	D	

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) 6. Date Exercisable and 9. Number of 1. Title of 7. Title and 8. Price of Derivative 3. Transaction 3A. Deemed 5. Number 10. 11. Nature Derivative Security (Instr. 3) Conversion Execution Date Transaction Expiration Date (Month/Day/Year) Amount of derivative Ownership of Indirect Date (Month/Day/Year) of Derivative Code (Instr. 8) Securities Security (Instr. 5) or Exercise if anv Securities Form: Beneficial Beneficially Owned Price of Derivative (Month/Day/Year) Securities Underlying Direct (D) Ownership (Instr. 4) or Indirect (I) (Instr. 4) Acquired Derivative (A) or Disposed Following Reported Security Security (Instr. 3 and 4) of (D) (Instr. 3, 4 and 5) Transaction(s) (Instr. 4) Amount o Number Expiration Date of Code ν (A) (D) Exercisable Date Title Shares

Explanation of Responses:

Lynnette C. Fallon, as attorneyin-fact for R. John Fletcher 09/15/2004

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** 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.