FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

ATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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* FLETCHER R JOHN					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner					
(Last)	(F ERRY HILI	•	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 07/16/2012								Officer below)	(give title		Other (s below)	specify
(Street) BEVERI (City)			01915 (Zip)		4. 1	4. If Amendment, Date of Original Filed (Month/Day/Year)							Lin	Individual or Joint/Group Filing (Check Applicable lee) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tab	le I - Nor	ı-Deriv	/ativ	e Se	curities	s Ac	quired, D	ispose	d o	f, or Bei	neficial	ly Owned	l			
1. Title of Security (Instr. 3) 2. Trans Date (Month/I				action 2A. Deemed Execution Date, if any (Month/Day/Yea			Code (Instr. 5)			ed (A) or tr. 3, 4 and	Benefici	es For ally (D) Following (I) (n: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
								Code V	Amo	unt	(A) or (D) Prid		Transaci (Instr. 3	tion(s)			(111301.4)	
	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)	rivative Conversion Date Execution Date, curity or Exercise (Month/Day/Year) if any			Transaction Of Der Sec Acc (A) Dis		ve es ed ed nstr.	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)			
					Code	v	(A)	(D)	Date Exercisable	Expirati Date	on	Title	Amount or Number of Shares					
Stock option (right to buy)	\$0.93	07/16/2012			A ⁽¹⁾		40,000		01/13/2013	07/16/20)19	Common Stock	40,000	\$0	40,00	00	D	

Explanation of Responses:

1. Granted pursuant to the Axcelis Technologies, Inc. 2012 Equity Incentive Plan.

<u>Lynnette C. Fallon, as attorney</u> in fact for R. John Fletcher

07/17/2012

** 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.