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

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*					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]								Relationship neck all appl X Direct	icable) or	g Pers	10% Ov	vner	
(Last)	`	irst) CHNOLOGIES,	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 07/15/2010 Officer (give title below) below) Other (specify below)											specify		
108 CHERRY HILL DRIVE					4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street) BEVERI	LY M	ΙA	01915										X Form	filed by Mor	•	orting Person		
(City)	(S	tate)	(Zip)															
		Tab	le I - Non-D	Perivativ	e Se	curities	s Ac	quired, [Disp	osed o	f, or Be	neficia	lly Owne	t				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					Execution Date,			Code (Instr. 5)				ed (A) or tr. 3, 4 an	Benefic	es Formally (D) (Sollowing (I) (I		n: Direct r Indirect istr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
								Code	V	Amount	unt (A) or (D)		Transac (Instr. 3	tion(s)			(111511.4)	
	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			Code (ransaction of ode (Instr. Derivative			6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amou of Securities Underlying Derivative Securit (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)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable		xpiration ate	Title	Amount or Number of Shares						
Stock option (right to buy)	\$1.6	07/15/2010		A ⁽¹⁾		50,000		01/14/2011	. 0	7/15/2020	Common Stock	50,000	\$0	50,000	0	D		

Explanation of Responses:

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

Lynnette C. Fallon, as attorneyin-fact for Stephen R. Hardis

** 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.