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	STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP
Instruction 1(b).	Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

OMB APPROVAL OMB Number: Estimated average burden

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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* HARDIS STEPHEN R						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]												olicable)	g Person(s) to Is		
	(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 08/11/2010											Office below	er (give title v)		Other (spec below)	
(Street) BEVERLY MA 01915					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)										6. Indi Line) X					
(City)	(St		Zip)		<u> </u>	_							_					•			
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)				action	tion 2A. Deem			d Date,	3. Transaction		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4				or	5. Amo Securi Benefi Owned	ount of ties cially I Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
										Code	v	Amount		(A) or (D)	Prid	e	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)
Common Stock 08/11/3					/2010	2010						10,39	8	A	\$1	1.55	433,318		D		
Common Stock 08/11/2					/2010	2010				P		5,100		A	\$:	\$1.56		438,418			
Common Stock 08/11/2					/2010	/2010				P		10,000	0	A \$1.5		L. 5 7	7 448,418		D		
Common Stock 08/11/2					/2010	.010		P		24,502		A	\$:	L.58	472,920		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)	ive Conversion Date Execution Date, or Exercise (Month/Day/Year) if any			Code (8)	ransaction ode (Instr.) Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			6. Date E Expiratio (Month/D	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amoun or Numbe of Title Shares			nt er		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owners Form: Direct (or Indir (I) (Inst	D) ect	11. Nature of Indirect Beneficial Ownership (Instr. 4)				

Explanation of Responses:

Lynnette C. Fallon, as attorney 08/13/2010 in 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.