FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL												
OMB Number:	3235-0287											
Estimated average burden												
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	Check this box if no longer subject to								
٦	Section 16. Form 4 or Form 5								
)	obligations may continue. See								
	Instruction 1(b)								

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]									elationshi ck all app Direc	olicable)	g Person(s) to I	ssuer Owner	
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC.					3. Date of Earliest Transaction (Month/Day/Year) 08/31/2010										Offic belov	er (give title w)	Other below	(specify)	
108 CHERRY HILL DRIVE						4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line)				
(Street) BEVERL	(Street) BEVERLY MA 01915													2	Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(St	ate) (Zip)																
		Tabl	e I - Nor	n-Deriva	ative \$	Secu	uritie	s Acq	uired,	Dis	osed o	f, or E	Bene	ficiall	/ Owne	ed			
1. Title of Security (Instr. 3) 2. Transa Date (Month/L					Execution Date,			Date,	3. Transaction Code (Instr. 5) 4. Securit Disposed 5)			ies Acq Of (D) (uired (Instr. 3	A) or B, 4 and	Securi Benefi	cially I Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	(A (D) or)	Price	Transa	action(s) 3 and 4)		(iiisti. 4)	
Common Stock 08/31					/2010			P		50,000)	A	\$1.35	57	72,920	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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Day	Date,	ransaction Code (Instr.				6. Date E Expiratio (Month/I	n Date	•	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		De Se (Ir	Price of rivative curity estr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction((Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code \	,	(A)		Date Exercisa		Expiration Date	Title	Amo or Num of Shar	ber					

Explanation of Responses:

Lynnette C. Fallon, as attorney 09/01/2010 in fact for Stephen R. Hardis

** Signature of Reporting Person

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.

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