FORM 4

obligations may continue. See Instruction 1(b).

Check this box if no longer subject to Section 16. Form 4 or Form 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
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STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

OMB APPRO	DVAL
OMB Number:	3235-0287
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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* NETTLES PATRICK H						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]										all app	onship of Reporting all applicable) Director		10% C	wner	
		HNOLOGIES, I	Middle)			3. Date of Earliest Transaction (Month/Day/Year) 05/16/2016										Office below	icer (give title ow)		Other (specify below)		
108 CHERRY HILL DRIVE					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street) BEVERI	Y M	Α ()1915										X	,							
(City)	(St	ate) (Zip)																		
		Tabl	e I - Noi	n-Deriva	ative	Sec	curitie	s Acq	uired,	Dis	posed o	f, o	r Ben	efici	ally (Owne	ed				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					Execution Date,		3. 4. Securities Acquire Disposed Of (D) (Inst 5)						5. Amount of Securities Beneficially Owned Following		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	•	Transa	eported ransaction(s) nstr. 3 and 4)			(msu. 4)	
Common	Stock			05/16/	/2016				A		30,545		A	\$0.0)0(1)	110,230(2)]	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)	tle of vative Conversion Date Secution Date, Urity or Exercise (Month/Day/Year) if any Co		Transa Code (ransaction of ode (Instr. Derivative		ative rities ired sed	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amour or Numbe		ount	Deriv Secu	erivative ecurity estr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	m: ect (D) ndirect	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
			Code	v	(A) (D)				Expiration Date	of Title Shar		rec									

Explanation of Responses:

- 1. These shares are issuable on vesting of restricted stock units granted under the Company's 2012 Equity Incentive Plan. Assuming continuation of service on the Board of Directors, these restricted stock units will vest on November 12, 2016.
- 2. Of the shares held as of May 16, 2016, 30,545 were issuable on vesting of restricted stock units granted to the director under the 2012 Equity Incentive Plan and are subject to forfeiture.

Remarks:

Lynnette C. Fallon, as attorney 05/17/2016 in fact for Patrick H. Nettles

** 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.

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