SEC Form 4	
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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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL OMB Number: 3235-0287 Estimated average burden

Estimated average burden	
hours per response:	0.5

1. Name and Address of Reporting Ferson			2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
NETTLES PATRICK H			L	X	Director	10% Owner		
C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE		()	3. Date of Earliest Transaction (Month/Day/Year) 07/16/2007		Officer (give title below)	Other (specify below)		
			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line)	dividual or Joint/Group Filing (Check Applicable			
(Street)				X	Form filed by One Report	ting Person		
BEVERLY	MA	01915			Form filed by More than (Person	One Reporting		
(City)	(State)	(Zip)						

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Transaction Code (Instr.		4. Securities / Disposed Of (5)			5. Amount of Securities Beneficially Owned Following Reported	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	Transaction(s) (Instr. 3 and 4)		(11511 4)
Common Stock	07/16/2007		A		16,103	Α	\$0 ⁽¹⁾	43,193	D	

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

	1	1		-						-							
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	Code (Transaction Code (Instr. 8)		mber ative rities ired osed . 3, 4	Expiration Date (Month/Day/Year) d		Expiration Date					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	Expiration Date	Title	Amount or Number of Shares						

Explanation of Responses:

1. These shares are restricted stock granted under the Company's 2000 Stock Plan. The shares shall vest on January 16, 2008.

Lynnette C. Fallon, as attorney-07/18/2007

<u>in-fact for Patrick H. Nettles</u>

** 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.