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 Number: 3235-0287 Estimated average burden hours per response: 0.5

1. Name and Address of Reporting Person [*] <u>PUMA MARY G</u>			2. Issuer Name and Ticker or Trading Symbol <u>AXCELIS TECHNOLOGIES INC</u> [ACLS]		ationship of Reporting Pe < all applicable) Director	erson(s) to Issuer 10% Owner
(1 oot)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year)	x	Officer (give title below)	Other (specify below)
(Last)	(FIISI)	(iviluule)	06/30/2005		Chairman, Preside	ent and CEO
C/O AXCELI	S TECHNOLO	GIES, INC.	00/30/2005		Chairman, i reside	
108 CHERRY	HILL DRIVE					
			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv	/idual or Joint/Group Filir	ng (Check Applicable
(C) ()				Line)		
(Street) BEVERLY	МА	01915		X	Form filed by One Re	porting Person
	1717 1	01010			Form filed by More that Person	an 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)	3. Transa Code (Acquired		5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
			Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)
Common Stock	06/30/2005		J ⁽¹⁾	v	1,500	Α	\$5.83	64,263.1	D	
Common Stock	07/01/2005		A		72,569	A	\$0 ⁽²⁾	136,832.1	D	
Common Stock								10,000	Ι	Held by spouse

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. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code (8)		of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exerc Expiration Da (Month/Day/N	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amount or Number of Shares		Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v			Date Expiration Exercisable Date						

Explanation of Responses:

1. Purchased under the Axcelis Technologies, Inc. Employee Stock Purchase Plan, qualified under I.R.C. Section 423.

2. These shares are issuable on restricted stock units granted under the Company's 2000 Stock Plan. 1/3 of the shares will issue upon vesting on each of July 1, 2007, 2008 and 2009, provided the reporting person is employed by Axcelis Technologies, Inc. on those dates. No voting or other stockholder rights attach to the units until the shares are issued.

Lynnette C. Fallon, as attorney-07/05/2005 in-fact for Mary G. Puma

** 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.

OMB APPROVAL