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 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)					
<u>PUMA MARY G</u>				X	Director	10% Owner			
(Last)	UMA MARY G ast) (First) (Middle) O AXCELIS TECHNOLOGIES, INC. 8 CHERRY HILL DRIVE eet)		3. Date of Earliest Transaction (Month/Day/Year)	x	Officer (give title below)	Other (specify below)			
		GIES, INC.	07/03/2006		Chairman, President and CEO				
108 CHERRY	HILL DRIVE								
(Street)			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line)	vidual or Joint/Group Fili	ng (Check Applicable			
	01915		X	K Form filed by One Reporting Person					
			—		Form filed by More th Person	an One Reporting			
(City)	(State)	(Zip)		1					

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

Table 1 - Non-Derivative Decurrices Acquired, Disposed of, of Derichelary 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)
				v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(1130.4)
Common Stock	07/03/2006		Α		83,333	Α	<b>\$0</b> <sup>(1)</sup>	221,665	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)		5. Nu of Deriv Secu Acqu (A) or Dispo of (D) (Instr and 5	ative rities ired osed . 3, 4	6. Date Exerc Expiration Da (Month/Day/Y	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	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 issuable on restricted stock units granted under the Company's 2000 Stock Plan. 50% of these units will vest on July 3, 2009 (subject to acceleration on achievement of a market capitalization goal) and the remaining 50% of the units will vest on July 3, 2010 (subject to acceleration on achievement of a market capitalization goal), provided however, that such vesting shall in no event be earlier than July 3, 2008.

Lynnette C. Fallon, as attorney-07/05/2006

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.