PUMA MARY G Form 4 February 09, 2005

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

3235-0287

OMB APPROVAL

January 31, Expires: 2005

0.5

Estimated average burden hours per

response...

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

obligations

may continue.

See Instruction

Check this box

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1(b).

Common

Common

Stock

Stock

02/09/2005

(Print or Type Responses)

1. Name and Address of Reporting Person * PUMA MARY G			Symbol	LIS TECI		5. Relationship of Reporting Person(s) to Issuer (Check all applicable)			
	(Last) (First) (Middle) O AXCELIS TECHNOLOGIES, IC., 108 CHERRY HILL DRIVE			of Earliest T Day/Year) 2005		_X_ Director 10% Owner _X_ Officer (give title Other (specify below) President and CEO			
BEVERLY			endment, D onth/Day/Yea	ur)	6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(State)	(Zip)	Tab	le I - Non-l	Derivative Securities Acqu	iired, Disposed	of, or Beneficial	ly Owned	
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	e 2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s	Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	

Code V

P

or

(D)

Price

8.3323

Amount

10,000

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

(Instr. 3 and 4)

I

D

10,000

62,763.12

of

Held by

spouse

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

1. Title of	2.	3. Transaction Date		4. T	5.	6. Date Exer		7. Titl		8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if		ionNumber	Expiration D		Amou		Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day	(Year)	Under	, ,	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivativ	e		Securi	ities	(Instr. 5)	Bene
	Derivative				Securities	3		(Instr.	3 and 4)		Owne
	Security				Acquired						Follo
	Ť				(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						(211512
					4, and 5)						
					4, and 3)						
									Amount		
						.	.		or		
						Date Exercisable	Expiration Date	Title No	Number		
									of		
				Code V	(A) (D)				Shares		

Reporting Owners

Reporting Owner Name / Address

Director 10% Owner Officer Other

X

PUMA MARY G C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE BEVERLY, MA 01915

President and CEO

Signatures

Lynnette C. Fallon, as attorney-in-fact for Mary G.
Puma
02/09/2005

**Signature of Reporting Person Date

Explanation of Responses:

- * 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. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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