PUMA MARY G Form 4 July 06, 2010

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

30(h) of the Investment Company Act of 1940

OMB APPROVAL

Number: 3235-0287 Expires: January 31,

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

Section 16.

Form 4 or
Form 5
obligations
obligations

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

may continue. *See* Instruction 1(b).

1(0).

(Print or Type Responses)

1. Name and Address of Reporting Person * PUMA MARY G			2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)			
			[ACLS]	(2 m. npp)			
(Last) C/O AXCEL	(First)	(Middle) OLOGIES,	3. Date of Earliest Transaction (Month/Day/Year) 07/01/2010	_X_ Director 10% Owner _X_ Officer (give title Other (specification) below) Chairman, President and CEO			
INC., 108 CF	HERRY HII	LL DRIVE					
(Street)			4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Checl			
DEVEDIX	MA 01015		Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting			

BEVERLY MA 0191

DEVERLI, MA 01913							Person		
(City)	(State)	(Zip) Table	e I - Non-D	erivative S	Securi	ties Acq	uired, Disposed o	of, or Beneficial	ly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactic Code (Instr. 8)	4. Securit on(A) or Di (Instr. 3,	sposed 4 and : (A) or	of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock	07/01/2010		F	8,521	D (1)	\$ 1.59 (2)	292,201	D	
Common Stock	07/03/2010		F	13,228	D (3)	\$ 1.42 (4)	278,973 <u>(5)</u>	D	
Common Stock							20,000	I	Shares held by spouse

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

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SEC 1474 (9-02)

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	3A. Deemed	4.	5.	6. Date Exerc	isable and	7. Titl	e and	8. Price of	9
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transacti	orNumber	Expiration Da	ate	Amou	nt of	Derivative	J
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	lying	Security	,
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Secur	ities	(Instr. 5)]
	Derivative				Securities			(Instr.	3 and 4)		(
	Security				Acquired						J
					(A) or]
					Disposed						-
					of (D)						(
					(Instr. 3,						
					4, and 5)						
									Amount		
						Date	Expiration	m	or		
						Exercisable D	Date		Number		
				~					of		
				Code V	(A) (D)				Shares		

Reporting Owners

Relationships Reporting Owner Name / Address

> Director 10% Owner Officer Other

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

X

Chairman, President and CEO

Signatures

By Lynnette C. Fallon, attorney in fact for Mary G. 07/06/2010 Puma

> **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).
- Shares withheld by the Company equal to tax liability of the executive officer incident to the vesting of restricted stock units issued in accordance with Rule 16b-3.
- (2) Represents the closing price of the common stock at July 1, 2010.
- Shares withheld by the Company equal to tax liability of the executive officer incident to the vesting of restricted stock units issued in accordance with Rule 16b-3.
- (4) Represents the closing price of the common stock at July 6, 2010 (the first trading day after the vesting date).
- (5) Of the shares held as of July 3, 2010, 26,840 were issuable on vesting of restricted stock units granted the executive under the 2000 Stock Plan and are subject to forfeiture. A portion of these shares will be withheld by the Company on vesting to satisfy tax withholding

Reporting Owners 2

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requirements.

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.