FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPRO	VAL
l	OMB Number:	3235-0287
l	Estimated average burd	en
l	hours per response:	0.5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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

1 Nome on	d Address of	Departing Dersen*			2 19	ssuer	Name :	and Ticl	ker or Tra	dina (Symbol			15	Relati	onshi	o of Reportin	n Person	(s) to Is	suer	
1. Name and Address of Reporting Person* PUMA MARY G							2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]									all app	licable)	g i cison	` '		
FUMA WARI U																Direc			10% C		
(Last) (First) (Middle)							Date of Earliest Transaction (Month/Day/Year)								X	Officer (give title below)			Other (specify below)		
C/O AXO	CELIS TEC	07/	07/01/2007										Chairman, President and CEO				O				
108 CHERRY HILL DRIVE																					
							4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable						
(Street)															ine) X	Form filed by One Reporting Person				on	
BEVERLY MA 01915														Λ	Form filed by More than One Reporting						
(City) (State) (Zip)																Person					
(City)	(50																				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																					
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da						Execution Date			Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)				4 and Sec Bei Ow		ount of ties cially d Following	6. Owne Form: D (D) or In (I) (Instr	irect direct	7. Nature of Indirect Beneficial Ownership	
										v	Amount	() (I	A) or D)	Price	. 11		ted action(s) 3 and 4)			(Instr. 4)	
Common	Stock	/2007	2007		F		7,680(1)		D	\$6.4	18(2)	213,985(3)		D)						
Common Stock																	0,000	I		Held by spouse	
		Та									sed of, onvertib				y Ow	ned					
1. Title of Derivative Security (Instr. 3)	re Conversion Date Execution Date, or Exercise (Month/Day/Year) if any				Transaction Code (Instr.		n of		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		nt		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownershi Form: Direct (D) or Indirect (I) (Instr. 4		11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	of Sha								

Explanation of Responses:

- 1. 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 vesting (July 2, 2007).
- 3. Of the shares held as of July 1, 2007, 131,713 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 requirements

Lynnette C. Fallon, as attorneyin-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.