FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	S IN BENEFICIAL	OWNERSHIP

OMB APPRO	VAL
OMB Number:	3235-0287
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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. Name and Address of Reporting Person* PUMA MARY G				2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
PUMA	MARY	<u> </u>		-	1210	<u>LLIU I</u>		IIIIOLO	<u> </u>		LITOLO		V Director			10% Ow	ner
,														give title		Other (s	pecify
(Last)	(F	irst)	(Middle)		3. Date of Earliest Transaction (Month/Day/Year)								below) below)				
C/O AXCELIS TECHNOLOGIES, INC.					07/15/2011							Chairman, President and CEO					
108 CHE	ERRY HILL	DRIVE															
				4	. If Am	endment,	Date	of Original File	ed (Month	Day	//Year)		dividual or Jo	oint/Group F	iling	(Check App	icable
(Street)												Line	•				
BEVERI	LY M	IΑ	01915											•	•	rting Person	
,													Form fil Person	ed by More	than	One Report	ing
(City)	(S	state)	(Zip)										1 013011				
		Та	ıble I - Non-D	erivati	ive S	ecuritie	s Ad	cquired, D	isposed	l o	f, or Ber	neficially	Owned				
Date				2A. Deemed Execution Date if any (Month/Day/Yea		Code (Instr.			ed (A) or tr. 3, 4 and 5	Beneficial Owned Fo	Form ly (D) or	: Direct 	7. Nature of Indirect Beneficial Ownership				
							Code V	Amount		(A) or (D)	Price	Reported Transaction (Instr. 3 and			[Instr. 4)	
			Table II - Dei (e.ç					uired, Dis s, options	•	•		,	Owned				
Security or Exercise (Month/Day/Year) if any		Execution Date,	Code (Transaction Derivative Code (Instr. Securities		6. Date Exercisable and Expiration Date (Month/Day/Year) 7. Title and Am of Securities Underlying Derivative Sec (Instr. 3 and 4)		ies g Security	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)	ly	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	on	Title	Amount or Number of Shares		(Instr. 4)	лі(5)		
Stock option (right to buy)	\$1.6	07/15/2011		A ⁽¹⁾		250,000		07/15/2015 ⁽²⁾	07/15/20	21	Common Stock	250,000	\$0	250,00	0	D	

Explanation of Responses:

- 1. Granted pursuant to the Axcelis Technologies, Inc. 2000 Stock Plan.
- $2.\ To\ become\ exercisable\ as\ to\ 25\%\ of\ the\ shares\ on\ each\ of\ 7/15/2012,\ 7/15/2013,\ 7/15/2014\ and\ 7/15/2015.$

<u>Lynnette C. Fallon, as attorney</u> <u>in fact for Mary G. Puma</u> <u>07/18/2011</u>

** Signature of Reporting Person Date

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

- * 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.