FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-028								
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Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(h)

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

					or S	Section	on 30(h)	of the	Investme	nt Co	mpany Act	of 194	10							
1. Name and Address of Reporting Person* PALETTE DONALD W					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner						
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 07/03/2006										icer (give title ow)	C b	Other (specify below)		
(Street) BEVERLY MA 01915 (City) (State) (Zip)						4. If Amendment, Date of Original Filed (Month/Day/Year)									ne) X Fo Fo	<i>'</i>				
		Tabl	e I - Nor	-Deriv	ative	Se	curitie	s Ac	quired	, Dis	sposed o	f, or	Ben	eficia	ally Ow	ned				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					ar) I	2A. Deemed Execution Date, f any Month/Day/Year		, Transaction Dispose Code (Instr. 5)		n Disposed	rities Acquired (A ed Of (D) (Instr. 3,			nd Secu Bend Own	nount of irities eficially ed Following orted	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	ct ect	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
									Code	v	Amount		(A) or (D)	Price	Tran	saction(s) r. 3 and 4)			(111501.4)	
Common Stock 07/03.						/2006					35,83	35,833 A		\$0	(1)	67,038	D			
		Та									osed of, onvertib				y Owne	d				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Da	Date, Transaction					6. Date E Expirati (Month/I		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		str. 3	8. Price o Derivative Security (Instr. 5)		Owners Form: Direct or India (I) (Inst	ership : t (D) lirect	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	or Nur of	ount nber ires						

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 Donald Palette

** 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.

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