KEITHLEY JOSEPH P Form 3 August 04, 2011 FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549 OMB

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

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

OMB APPROVAL

OMB Number: 3235-0104 Expires: January 31, 2005 Estimated average burden hours per response... 0.5

(Print or Type Responses)

1. Name and Address of Reporting Person <u>*</u> KEITHLEY JOSEPH P			2. Date of Event Requiring Statement (Month/Day/Year)	3. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]				
(Last)	(First)	(Middle)	08/03/2011	4. Relationshi Person(s) to Is	p of Reporting ssuer	5. If Amendment, Date Original Filed(Month/Day/Year)		
C/O AXCELIS TECHNOLOGIES, INC., 108 CHERRY HILL DRIVE (Street) BEVERLY, MA 01915				(Check all applicable) <u>X</u> Director Officer <u>10%</u> Owner (give title below) (specify below)			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)	Table I - I	Non-Derivat	ive Securiti	ies Bei	neficially Owned	
1.Title of Secur (Instr. 4)	ity		2. Amount o Beneficially (Instr. 4)		3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nat Owne (Instr.	1	
Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly. SEC 1473 (7-02)								
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 control number.								

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

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of	5. Ownership Form of Derivative	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of	Derivative Security	Security: Direct (D)	

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Shares

or Indirect (I) (Instr. 5)

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director 10% Owner		Officer Other				
KEITHLEY JOSEPH P C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE BEVERLY, MA 01915	ÂX	Â	Â	Â			
Signatures							
Lynnette C. Fallon, as attorney in fact for . Keithley	08/0	4/2011					
**Signature of Reporting Person	Date						
Evaluation of Poenoncos:							

Explanation of Responses:

No securities are beneficially owned

- * If the form is filed by more than one reporting person, *see* Instruction 5(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).

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Remarks:

Mr. Keithley did not own any reportable securities, directly or indirectly, prior to becoming a repor

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.