

Form 144

FORM 144

NOTICE OF PROPOSED SALE OF SECURITIES  
PURSUANT TO RULE 144 UNDER THE SECURITIES ACT OF 1933

## 144: Filer Information

Filer CIK 0001073329  
Filer CCC XXXXXXXXX  
Is this a LIVE or TEST Filing?  LIVE  TEST

### Submission Contact Information

Name  
Phone  
E-Mail Address

## 144: Issuer Information

Name of Issuer AXCELIS TECHNOLOGIES INC  
SEC File Number 000-30941  
Address of Issuer 108 CHERRY HILL DRIVE  
BEVERLY  
MASSACHUSETTS  
01915  
Phone 978-787-4000  
Name of Person for Whose Account the Securities are To Be Sold KEITHLEY JOSEPH P

See the definition of "person" in paragraph (a) of Rule 144. Information is to be given not only as to the person for whose account the securities are to be sold but also as to all other persons included in that definition. In addition, information shall be given as to sales by all persons whose sales are required by paragraph (e) of Rule 144 to be aggregated with sales for the account of the person filing this notice.

Relationship to Issuer Control Person

## 144: Securities Information

Title of the Class of Securities To Be Sold	Name and Address of the Broker	Number of Shares or Other Units To Be Sold	Aggregate Market Value	Number of Shares or Other Units Outstanding	Approximate Date of Sale	Name the Securities Exchange
Common Stock	Fidelity Brokerage Services LLC 245 Summer Street Boston MA 02110	10686	1282747.44	32711130	05/09/2023	NASDAQ

Furnish the following information with respect to the acquisition of the securities to be sold and with respect to the payment of all or any part of the purchase price or other consideration therefor:

## 144: Securities To Be Sold

Title of the Class	Date you Acquired	Nature of Acquisition Transaction	Name of Person from	Is this	Date Donor Acquired	Amount of Securities Acquired	Date of Payment	Nature of Payment *
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	Whom Acquired	a Gift?		
Common Stock 02/22/2016 Stock Award	Joseph P. Keithley	<input type="checkbox"/>	686	02/22/2016 N/A
Common Stock 08/15/2013 Stock Award	Joseph P. Keithley	<input type="checkbox"/>	6250	08/15/2013 N/A
Common Stock 05/24/2012 Stock Award	Joseph P. Keithley	<input type="checkbox"/>	1250	05/24/2012 N/A
Common Stock 02/10/2012 Stock Award	Joseph P. Keithley	<input type="checkbox"/>	2500	02/10/2012 N/A

\* If the securities were purchased and full payment therefor was not made in cash at the time of purchase, explain in the table or in a note thereto the nature of the consideration given. If the consideration consisted of any note or other obligation, or if payment was made in installments describe the arrangement and state when the note or other obligation was discharged in full or the last installment paid.

Furnish the following information as to all securities of the issuer sold during the past 3 months by the person for whose account the securities are to be sold.

## 144: Securities Sold During The Past 3 Months

Name and Address of Seller	Title of Securities Sold	Date of Sale	Amount of Securities Sold	Gross Proceeds
JOSEPH P. KEITHLEY 1985 TRUST C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE BEVERLY MA 01915	Common Stock	02/13/2023	3000	370083.22
JOSEPH P. KEITHLEY 1985 TRUST C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE BEVERLY MA 01915	Common Stock	02/13/2023	1497	188134.46
JOSEPH P. KEITHLEY 1985 TRUST C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE BEVERLY MA 01915	Common Stock	02/13/2023	1189	149426.77
JOSEPH P. KEITHLEY 1985 TRUST C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE BEVERLY MA 01915	Common Stock	02/13/2023	314	39461.73

## 144: Remarks and Signature

Remarks shares sold for JOSEPH P. KEITHLEY 1985 TRUST, JOSEPH P. KEITHLEY TRUSTEE

Date of Notice 05/09/2023

### ATTENTION:

The person for whose account the securities to which this notice relates are to be sold hereby represents by signing this notice that he does not know any material adverse information in regard to the current and prospective operations of the Issuer of the securities to be sold which has not been publicly disclosed. If such person has adopted a written trading plan or given trading instructions to satisfy Rule 10b5-1 under the Exchange Act, by signing the form and indicating the date that the plan was adopted or the instruction given, that person makes such representation as of the plan adoption or instruction date.

Signature /s/ Myra King, as a duly authorized representative of Fidelity Brokerage Services LLC, as attorney-in-fact for JOSEPH P. KEITHLEY TRUSTEE

**ATTENTION: Intentional misstatements or omission of facts constitute Federal Criminal Violations (See 18 U.S.C. 1001)**