

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 0001775435
 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 MKS INSTRUMENTS INC
 SEC File Number 000-23621

Address of Issuer 2 TECH DRIVE
 SUITE 201
 ANDOVER
 MASSACHUSETTS
 01810

Phone 978-645-5500
 Name of Person for Whose Account the Securities are To Be Sold Burke Kathleen Flaherty

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 Officer

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	Fidelity Brokerage Services LLC 900 Salem St Smithfield RI 02917	6186	625304.01	66862788	08/07/2023	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 Whom Acquired	Is this a Gift?	Date Donor Acquired	Amount of Securities Acquired	Date of Payment	Nature of Payment *
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Common	02/15/2021	Restricted Stock Vesting	Issuer	<input type="checkbox"/>	4885	02/15/2021 Compensation
Common	05/28/2021	ESPP Purchase	Issuer	<input type="checkbox"/>	89	05/28/2021 Cash
Common	10/28/2021	Restricted Stock Vesting	Issuer	<input type="checkbox"/>	1212	10/28/2021 Compensation

* 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

Nothing to Report

144: Remarks and Signature

Remarks

Date of Notice 08/07/2023

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/ Daniel Tucci, as a duly authorized representative of Fidelity Brokerage Services LLC, as attorney-in-fact for Kathleen F. Burke

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