

| OMB APPROVAL                                 |           |
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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).

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

|   |   |  |
|---|---|--|
| <b>1. Name and Address of Reporting Person*</b><br><u>BERTUCCI JOHN R</u><br><hr/> (Last) (First) (Middle)<br><u>C/O MKS INSTRUMENTS, INC.</u><br><u>2 TECH DRIVE, SUITE 201</u><br><hr/> (Street)<br><u>ANDOVER MA 01810</u><br><hr/> (City) (State) (Zip) | <b>2. Issuer Name and Ticker or Trading Symbol</b><br><u>MKS INSTRUMENTS INC [ MKSI ]</u> | <b>5. Relationship of Reporting Person(s) to Issuer</b><br>(Check all applicable)<br><input checked="" type="checkbox"/> Director 10% Owner<br><input type="checkbox"/> Officer (give title below) Other (specify below) |
|   | <b>3. Date of Earliest Transaction (Month/Day/Year)</b><br><u>05/08/2019</u>              |  |
| <b>4. If Amendment, Date of Original Filed (Month/Day/Year)</b>   |   |  |

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) |   | 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5) |            |       | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|------------|-------|---|--|---|
|                                 |                                      |  | Code                           | V | Amount  | (A) or (D) | Price |   |  |   |
| Common Stock                    | 05/08/2019                           |  | A <sup>(1)</sup>               |   | 1,980.429   | A          | (2)   | 67,275.429 <sup>(3)</sup>   | D  |   |
| Common Stock                    |                                      |  |                                |   |   |            |       | 60,000  | I  | By Claire R. Bertucci 2018 Qualified Annuity Trust    |
| Common Stock                    |                                      |  |                                |   |   |            |       | 60,000  | I  | By Claire R. Bertucci 2019 Qualified Annuity Trust    |
| Common Stock                    |                                      |  |                                |   |   |            |       | 60,000  | I  | By John R. Bertucci 2018 Qualified Annuity Trust      |
| Common Stock                    |                                      |  |                                |   |   |            |       | 60,000  | I  | By John R. Bertucci 2019 Qualified Annuity Trust      |
| Common Stock                    |                                      |  |                                |   |   |            |       | 61,755  | I  | By Spouse   |

**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned  
(e.g., puts, calls, warrants, options, convertible securities)**

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) |   | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) |     | 6. Date Exercisable and Expiration Date (Month/Day/Year) |                 | 7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) |                            | 8. Price of Derivative Security (Instr. 5) | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | 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 | Title   | Amount or Number of Shares |  |  |   |  |

**Explanation of Responses:**

1. These restricted stock units become fully vested on the day prior to the first annual meeting of shareholders following the date of grant (or if no such meeting is held within 13 months after the date of grant, on the 13 month anniversary of the date of grant).
2. Each restricted stock unit represents the contingent right to receive one share of common stock of MKS Instruments, Inc.
3. Adjusted to reflect cash payment in lieu of distribution of a fractional share.

/s/ M. Kathryn Rickards, 05/09/2019  
attorney-in-fact

\*\* 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.

**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.**