FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

| OMB APPROVAL | | | | | | | | | | | |
|--------------|--|----------|--|--|--|--|--|--|--|--|--|
| OMB Number: | | 3235-028 | | | | | | | | | |
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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).

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

37 Estimated average burden hours per response: 0.5

| 1. Name and Address of Reporting Person* <u>STEWART WILLIAM D</u> | | | | | | 2. Issuer Name and Ticker or Trading Symbol MKS INSTRUMENTS INC [MKSI] | | | | | | | | | Check all a Di | pplicable) ector | 10% (| Person(s) to Issuer 10% Owner Other (specify below) ducts & PFMC | |
|---|---|------|--|---|---------|--|---------|--|--|---------|---|----------------------|--|---|---|---|--|---|--|
| (Last) (First) (Middle) 2 TECH DRIVE | | | | | | 3. Date of Earliest Transaction (Month/Day/Year) 08/03/2009 | | | | | | | | | A be | icer (give title low) P. Vacuum P | below | | |
| (Street) ANDOV | | |)1810 Zip) | | 4. If | 4. If Amendment, Date of Original Filed (Month/Day/Year) | | | | | | | | ne) X Fo | | | | | |
| | | Tabl | e I - Noi | n-Deriv | ative | Sec | curitie | s Acc | quired, | Dis | posed o | f, or | Ben | eficia | ally Ow | ned | | | |
| 1. Title of Security (Instr. 3) 2. Transposite (Month/L | | | 2A. Deemed Execution Date, if any (Month/Day/Year | | n Date, | Transaction Disposed Of (D Code (Instr. 5) | | | es Acquired (A) Of (D) (Instr. 3, 4 | | | nd Sec Ber Owi | mount of urities eficially ned Following orted | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) | | | | |
| | | | | | | | | | Code | v | Amount (A) or (D) | | A) or D) | Price | Trai | saction(s) tr. 3 and 4) | | (111501.4) | |
| Common Stock 08/03/ | | | | | 2009 | | S | | 12,906 | 6 D \$1 | | \$19 | .6(1) | 0 | D | | | | |
| | | Та | | | | | | | | | sed of, onvertib | | | | y Owne | d | | | |
| 1. Title of Derivative Security (Instr. 3) | erivative Conversion Date Execution Date, ecurity or Exercise (Month/Day/Year) if any | | Date, | 4. Transaction Code (Instr. 8) | | n of E | | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | | 7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) | | | 8. Price of Derivativ Security (Instr. 5) | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4) | Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) | | |
| | | | | | Code | v | (A) | (D) | Date Exercisa | | Expiration Date | Title | or Nui of | nber | | | | | |

Explanation of Responses:

1. This transaction was executed in multiple trades at prices ranging from \$19.55 to \$19.66. The price reported above reflects the weighted average sale price. The reporting person hereby undertakes to provide, upon request, the full information regarding the number of shares and prices at which the transaction was effected.

> /s/Renee M. Donlan POA 08/04/2009

** 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.