

Kay, Henry
 Form 4
 March 09, 2010

FORM 4

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION
 Washington, D.C. 20549**

OMB APPROVAL

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STATEMENT OF CHANGES IN 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

(Print or Type Responses)

1. Name and Address of Reporting Person *
 Kay, Henry

2. Issuer Name and Ticker or Trading Symbol
 MICROFLUIDICS INTERNATIONAL CORP [MFLU.OB]

5. Relationship of Reporting Person(s) to Issuer
 (Check all applicable)

(Last) (First) (Middle)
 30 OSSIPPEE RD
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)
 03/04/2010

Director 10% Owner
 Officer (give title below) Other (specify below)

NEWTON, MA 02464

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

(City) (State) (Zip)

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 Ownership (Instr. 4) | | |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|-----|-------|
| | | | | (A) or (D) | Code | V | Amount | (D) | Price |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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.

SEC 1474 (9-02)

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

| 1. Title of Derivative | 2. Conversion | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if | 4. Transaction | 5. Number of Derivative | 6. Date Exercisable and Expiration Date | 7. Title and Amount of Underlying Securities | 8. |
|------------------------|---------------|--------------------------------------|-------------------------------|----------------|-------------------------|---|--|----|
|------------------------|---------------|--------------------------------------|-------------------------------|----------------|-------------------------|---|--|----|

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| Security (Instr. 3) | or Exercise Price of Derivative Security | any (Month/Day/Year) | Code (Instr. 8) | Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | (Month/Day/Year) | (Instr. 3 and 4) | S | | |
|-----------------------------|--|----------------------|-----------------|---|------------------|------------------|-----------------|--------------|----------------------------|
| | | | Code V | (A) | (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |
| Stock Option (Right to Buy) | \$ 0.9 | 03/04/2010 | P | 25,000 | | <u>(1)</u> | 03/04/2015 | Common Stock | 25,000 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| Kay, Henry 30 OSSIPPEE RD NEWTON, MA 02464 | | X | | |

Signatures

/s/ Peter F.
Byzcko, POA 03/09/2010

__Signature of Reporting Person Date

Explanation of Responses:

- * 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).
- Option to purchase 25,000 shares of common stock granted 3/4/2010; 25% exercisable six months and one day after date of grant, with an
(1) additional 25% exercisable on each of the first three anniversaries of the date of grant so as to be 100% exercisable on the third anniversary of the date of grant.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.
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