

Yow Mai Chan
Form 4
June 26, 2012

FORM 4

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

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 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 *
Yow Mai Chan

2. Issuer Name and Ticker or Trading Symbol
FLUIDIGM CORP [FLDM]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

FLUIDIGM CORPORATION, 7000 SHORELINE COURT SUITE 100

3. Date of Earliest Transaction (Month/Day/Year)
06/22/2012

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

See Remarks

(Street)

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

SOUTH SAN FRANCISCO, CA 94080

(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: Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|--|
| | | | Code | V | Amount or Price (A) or (D) | | |
| Common Stock | 06/22/2012 | | M | | 8,121 | A | \$ 4.4461 8,121 D |
| Common Stock | 06/22/2012 | | S | | 8,121 (1) | D | \$ 15.0114 0 (2) D |
| Common Stock | 06/22/2012 | | M | | 1,590 | A | \$ 4.4461 1,590 D |
| Common Stock | 06/22/2012 | | S | | 1,590 | D | \$ 15 0 D |
| | 06/22/2012 | | M | | 289 | A | \$ 4.0828 289 D |

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Common
Stock

Common Stock 06/22/2012 S 289 D \$ 15 0 D

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

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(9-02)

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 Underlying Securities (Instr. 3 and 4) | 8. Amount or Number of Shares |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|-------------------------------|
| Employee Stock Option (Right to Buy) | \$ 4.4461 | 06/22/2012 | | M | 8,121 | <u>(3)</u> 05/07/2017 | Common Stock | 8,121 |
| Employee Stock Option (Right to Buy) | \$ 4.0828 | 06/22/2012 | | M | 289 | <u>(4)</u> 11/17/2019 | Common Stock | 289 |
| Employee Stock Option (Right to Buy) | \$ 4.4461 | 06/22/2012 | | M | 1,590 | <u>(5)</u> 09/26/2016 | Common Stock | 1,590 |

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

Yow Mai Chan
FLUIDIGM CORPORATION
7000 SHORELINE COURT SUITE 100
SOUTH SAN FRANCISCO, CA 94080

See Remarks

Signatures

/s/ Valerie Barnett,
attorney-in-fact

06/26/2012

__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).
- (1) The sales reported by Ms. Yow were effected pursuant to a Rule 10b5-1 trading plan adopted on June 1, 2012.
The "Amount" and "Price" reported in this Column 4 reflect the aggregate number and weighted-average price, respectively, of shares sold. These shares were sold in multiple transactions at prices ranging from \$15.00 to \$15.03, inclusive. The reporting person undertakes to provide to the issuer, any security holder of the issuer, or the SEC staff, upon request, full information regarding the number of shares sold at each separate price within the range set forth herein.
 - (2)
 - (3) 100% of the shares subject to the Option vested on May 1, 2010.
 - (4) 70% of the shares subject to the Option vested on December 31, 2009, 25% of the remaining 30% of the shares subject to the Option vested on April 1, 2010 and 1/48th of the remaining unvested shares subject to the Option shall vest each month thereafter.
 - (5) 100% of the shares subject to the Option vested on December 27, 2010.

Remarks:

EXECUTIVE VP, WORLDWIDE MANUFACTURING & MANAGING DIRECTOR - SINGAPORE

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.