

Yow Mai Chan
Form 4
September 21, 2011

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)
09/19/2011

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
VP, WW Mfg & MD-Singapore

(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 Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|---|
| | | | Code | V | Amount | (A) or (D) | Price |
| Common Stock | 09/19/2011 | | M | | 5,093 | A | \$ 4.08 |
| Common Stock | 09/19/2011 | | S ⁽¹⁾ | | 5,093 | D | \$ 14.4204 |
| Common Stock | 09/19/2011 | | M | | 3,468 | A | \$ 4.08 |
| Common Stock | 09/19/2011 | | S ⁽¹⁾ | | 3,468 | D | \$ 14.4204 |

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| | | | | | | | |
|--------------|------------|------------------|-----------------------------|---|-----------------------------|--------|---|
| Common Stock | 09/19/2011 | M | 4,772 | A | \$ 3.39 | 4,772 | D |
| Common Stock | 09/19/2011 | S ⁽¹⁾ | <u>4,772</u> <u>(2)</u> | D | \$ 14.4204 <u>(2)</u> | 0 | D |
| Common Stock | 09/19/2011 | M | 6,667 | A | \$ 4.45 | 6,667 | D |
| Common Stock | 09/19/2011 | S ⁽¹⁾ | <u>6,667</u> <u>(2)</u> | D | \$ 14.4204 <u>(2)</u> | 0 | D |
| Common Stock | 09/20/2011 | M | 20,000 | A | \$ 3.39 | 20,000 | D |
| Common Stock | 09/20/2011 | S ⁽¹⁾ | <u>20,000</u> <u>(7)</u> | D | \$ 14.6172 | 0 | D |

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

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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 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) | | |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--------------|----------------------------|
| | | | | Code | V (A) (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |
| Employee Stock Option (Right to Buy) | \$ 4.08 | 09/19/2011 | | M | 5,093 | <u>(3)</u> | 11/17/2019 | Common Stock | 5,093 |
| Employee Stock Option (Right to Buy) | \$ 4.08 | 09/19/2011 | | M | 3,468 | <u>(4)</u> | 11/17/2019 | Common Stock | 3,468 |
| Employee Stock | \$ 3.39 | 09/19/2011 | | M | 4,772 | <u>(5)</u> | 08/02/2015 | Common Stock | 4,772 |

Option
(Right to
Buy)

Employee
Stock

| | | | | | | | | |
|-----------------------------|---------|------------|---|-------|------------|------------|-----------------|-------|
| Option (Right to Buy) | \$ 4.45 | 09/19/2011 | M | 6,667 | <u>(6)</u> | 09/26/2016 | Common Stock | 6,667 |
|-----------------------------|---------|------------|---|-------|------------|------------|-----------------|-------|

Employee
Stock

| | | | | | | | | |
|-----------------------------|---------|------------|---|--------|------------|------------|-----------------|--------|
| Option (Right to Buy) | \$ 3.39 | 09/20/2011 | M | 20,000 | <u>(5)</u> | 08/02/2015 | Common Stock | 20,000 |
|-----------------------------|---------|------------|---|--------|------------|------------|-----------------|--------|

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

VP, WW Mfg & MD-Singapore

Signatures

/s/ William M. Smith,
attorney-in-fact

09/21/2011

 **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 September 13, 2011.

(2) The "Amount" and "Price" reported in this Column 4 reflect the aggregate number and weighted-average price, respectively, of shares acquired. These shares were purchased in multiple transactions at prices ranging from \$14.12 to \$14.59, 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 purchased at each separate price within the ranges set forth herein.

(3) 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.

(4) 60% of the shares subject to the Option vested on December 31, 2009 and the remaining shares shall vest on December 31, 2012.

(5) 100% of the shares subject to the Option vested on June 8, 2009.

(6) 100% of the shares subject to the Option vested on December 27, 2010.

(7) The "Amount" and "Price" reported in this Column 4 reflect the aggregate number and weighted-average price, respectively, of shares acquired. These shares were purchased in multiple transactions at prices ranging from \$14.27 to \$14.99, 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 purchased at each separate price within the ranges set forth herein.

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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