FLUIDIGM CORP Form 8-A12B February 07, 2011

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-A

FOR REGISTRATION OF CERTAIN CLASSES OF SECURITIES PURSUANT TO SECTION 12(b) OR (g) OF THE SECURITIES EXCHANGE ACT OF 1934

FLUIDIGM CORPORATION

(Exact name of registrant as specified in its charter)

Delaware (State of incorporation

77-0513190 (I.R.S. Employer

or organization)

Identification No.)

7000 Shoreline Court, Suite 100

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South San Francisco, California 94080

(Address of principal executive offices and zip code)

Securities to be registered pursuant to Section 12(b) of the Act:

Title of each class

Name of each exchange on which

to be so registered Common Stock, \$0.001 par value per share each class is to be registered The NASDAQ Stock Market LLC

If this form relates to the registration of a class of securities pursuant to Section 12(b) of the Exchange Act and is effective pursuant to General Instruction A.(c), check the following box. x

If this form relates to the registration of a class of securities pursuant to Section 12(g) of the Exchange Act and is effective pursuant to General Instruction A.(d), check the following box.

Securities Act registration statement file number to which this form relates: 333-170965

Securities to be registered pursuant to Section 12(g) of the Act: None

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Item 1. Description of Registrant s Securities to be Registered

Fluidigm Corporation (the Registrant) hereby incorporates by reference the description of its common stock to be registered hereunder contained under the heading Description of Capital Stock in the Registrant s Registration Statement on Form S-1 (File No. 333-170965), originally filed with the Securities and Exchange Commission (the Commission) on December 3, 2010, as amended (the Registration Statement), and in the prospectus included in the Registration Statement to be filed separately by the Registrant with the Commission pursuant to Rule 424(b) under the Securities Act of 1933, as amended, which prospectus shall be deemed to be incorporated by reference herein.

Item 2. Exhibits

Pursuant to the Instructions as to Exhibits with respect to Form 8-A, no exhibits are required to be filed because no other securities of the Registrant are to be registered on The NASDAQ Stock Market LLC and the securities to be registered hereby are not being registered pursuant to Section 12(g) of the Securities Exchange Act of 1934, as amended.

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SIGNATURE

Pursuant to the requirements of Section 12 of the Securities Exchange Act of 1934, as amended, the Registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereto duly authorized.

FLUIDIGM CORPORATION

Date: February 7, 2011

By: /s/ Gajus V. Worthington

Gajus V. Worthington

President and Chief Executive Officer