

FLUIDIGM CORP  
Form S-1MEF  
February 10, 2011

As filed with the Securities and Exchange Commission on February 10, 2011

Registration No. 333-

# SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## FORM S-1

### REGISTRATION STATEMENT

*Under*

*The Securities Act of 1933*

# FLUIDIGM CORPORATION.

(Exact name of Registrant as specified in its charter)

**Delaware**  
(State or other jurisdiction of  
incorporation or organization)

**3826**  
(Primary Standard Industrial  
Classification Code Number)  
**7000 Shoreline Court, Suite 100**  
**South San Francisco, CA 94080**

**77-0513190**  
(I.R.S. Employer  
Identification Number)

**(650) 266-6000**

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(Address, including zip code, and telephone number, including area code, of Registrant's principal executive offices)

**Gajus V. Worthington**

**President and Chief Executive Officer**

**7000 Shoreline Court, Suite 100**

**South San Francisco, CA 94080**

**(650) 266-6000**

(Name, address, including zip code, and telephone number, including area code, of agent for service)

*Copies to:*

**David J. Segre**

**William M. Smith**

**Charles K. Ruck**

**Robert F. Kornegay**

**Vice President, Legal Affairs**

**B. Shayne Kennedy**

**Asaf H. Kharal**

**and General Counsel**

**Latham & Watkins LLP**

**Wilson Sonsini Goodrich & Rosati P.C.**

**7000 Shoreline Court, Suite 100**

**650 Town Center Drive, 20th Floor**

**650 Page Mill Road**

**South San Francisco, CA 94080**

**Costa Mesa, CA 92626**

**Palo Alto, CA 94304**

**Telephone: (650) 266-6000**

**Telephone: (714) 540-1235**

**Telephone: (650) 493-9300**

**Telecopy: (650) 871-7152**

**Telecopy: (714) 755-8290**

**Telecopy: (650) 493-6811**

**Approximate date of commencement of proposed sale to the public:** As soon as practicable after the effective date of this Registration Statement.

If any of the securities being registered on this form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, as amended (the "Securities Act"), check the following box. "

If this form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. x 333-170965

If this form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. "

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If this form is a post-effective amendment filed pursuant to Rule 462(d) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. "

If delivery of the prospectus is expected to be made pursuant to Rule 434, check the following box. "

**CALCULATION OF REGISTRATION FEE**

<b>Title of Each Class of Securities to be Registered</b>	<b>Proposed Maximum Aggregate Offering Price (1)</b>	<b>Amount of Registration Fee (2)</b>
Common Stock \$0.001 par value	\$43,132.50	\$5.01

- (1) Fee calculated pursuant to Rule 457(o) and Section 6(b) of the Securities Act of 1933, as amended.
- (2) The Registrant previously registered an aggregate of \$86,250,000 of Common Stock on a Registration Statement on Form S-1 (File No. 333-170965), as amended, which was declared effective on February 9, 2011 and for which a filing fee of \$6,149.63 was previously paid.

**This registration statement shall become effective upon filing with the Commission in accordance with Rule 462(b) of the Securities Act of 1933, as amended.**

**INCORPORATION OF CERTAIN INFORMATION BY REFERENCE**

This Registration Statement is being filed with the Securities and Exchange Commission (the Commission ) pursuant to Rule 462(b) under the Securities Act of 1933, as amended. This Registration Statement relates to the public offering of common stock of the Registrant contemplated by the Registration Statement on Form S-1, as amended (File No. 333-170965), originally filed by the Registrant on December 3, 2010, as amended (the Prior Registration Statement ), and is being filed for the sole purpose of registering additional securities of the same class as were included in the Prior Registration Statement. The contents of the Prior Registration Statement and all exhibits thereto are hereby incorporated by reference.

**SIGNATURES**

Pursuant to the requirements of the Securities Act of 1933, the registrant has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Palo Alto, State of California, on the 10<sup>th</sup> day of February, 2011.

**FLUIDIGM CORPORATION**

By: /s/ Gajus V. Worthington  
Gajus V. Worthington

President and Chief Executive Officer

Pursuant to the requirements of the Securities Act of 1933, this Registration Statement has been signed by the following persons in the capacities indicated on the 10<sup>th</sup> day of February, 2011:

Signature	Title	Date
/s/ Gajus V. Worthington	President, Chief Executive Officer and Director	February 10, 2011
Gajus V. Worthington	(Principal Executive Officer)	
/s/ Vikram Jog	Chief Financial Officer	February 10, 2011
Vikram Jog	(Principal Accounting and Financial Officer)	
*	Director	February 10, 2011
Jeremy Loh		
*	Director	February 10, 2011
Samuel Colella		
*	Director	February 10, 2011
Kenneth Nussbacher		
*	Director	February 10, 2011
Raymond Whitaker		
*	Director	February 10, 2011
John A. Young		

By: /s/ Gajus V. Worthington  
Gajus V. Worthington

Attorney-in-Fact

By: /s/ Vikram Jog

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Vikram Jog

Attorney-in-Fact

The Power of Attorney granted by each director was filed as an exhibit to the Prior Registration Statement.

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**EXHIBIT INDEX**

**Exhibit**

<b>Number</b>	<b>Description</b>
5.1	Opinion of Wilson Sonsini Goodrich & Rosati, Professional Corporation
23.1	Consent of Ernst & Young LLP, Independent Registered Public Accounting Firm
23.2	Consent of Wilson Sonsini Goodrich & Rosati, Professional Corporation (included in Exhibit 5.1)
24.1*	Power of Attorney

\* Incorporated by reference from the Prior Registration Statement.