

MICROFLUIDICS INTERNATIONAL CORP  
Form S-8 POS  
February 25, 2011

POST-EFFECTIVE AMENDMENT NO. 1 TO FORM S-8  
As filed with the Securities and Exchange Commission on February 25, 2011  
Registration No. 333-85988

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

Post-Effective Amendment No. 1 To Form S-8 Registration No. 333-85988  
FORM S-8  
REGISTRATION STATEMENT  
UNDER  
THE SECURITIES ACT OF 1933

MICROFLUIDICS INTERNATIONAL CORPORATION  
(Exact name of registrant as specified in its charter)

Delaware  
(State or other jurisdiction of  
incorporation or organization)

04-2793022  
(I.R.S. Employer  
Identification No.)

30 Ossipee Road  
Newton, Massachusetts 02464  
(Address of principal executive offices)  
MFIC Corporation 1986 Employee Stock Purchase Plan  
(Full title of plans)

Michael C. Ferrara  
President and Chief Executive Officer  
30 Ossipee Road  
Newton, Massachusetts 02464  
(617) 969-5452

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

*Copy to:*  
Jonathan L. Kravetz, Esq.  
Megan N. Gates, Esq.  
Daniel H. Follansbee, Esq.  
Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C.  
One Financial Center  
Boston, Massachusetts  
(617) 542-6000

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer or a smaller reporting company. See the definitions of large accelerated filer, accelerated filer, and smaller reporting company in Rule 12b-2 of the Exchange Act.

Large accelerated filer

Accelerated filer

Non-accelerated filer

Smaller reporting  
company

(Do not check if a smaller  
reporting company)

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### EXPLANATORY NOTE

This Post-Effective Amendment No. 1 relates to the registration statement on Form S-8 (Registration No. 333-85988) previously filed by Microfluidics International Corporation, f/k/a MFIC Corporation, a Delaware corporation (the Company), with the Securities and Exchange Commission on April 10, 2002 (the Registration Statement), pertaining to the registration of 400,000 shares (the Shares) of Company common stock, par value \$0.01 per share (the Common Stock), under the MFIC Corporation 1986 Employee Stock Purchase Plan.

On January 10, 2011, IDEX Corporation, a Delaware corporation (IDEX), Nano Merger Sub, Inc., a Delaware corporation and wholly-owned direct subsidiary of IDEX (Purchaser), and the Company entered into an Agreement and Plan of Merger (the Merger Agreement) that provides for IDEX to acquire the Company by means of a tender offer by Purchaser for all of the outstanding shares of Common Stock followed by the merger of Purchaser and the Company (the Merger).

The tender offer was consummated on February 25, 2011.

As a result of the tender offer, Purchaser acquired approximately 66% of the outstanding shares of Common Stock. Pursuant to the Merger Agreement, all of the stock option and other equity incentive plans of the Company have been terminated as of February 25, 2011. Accordingly, the Company has terminated all offerings of its securities pursuant to its existing registration statements, including the Registration Statement.

In accordance with an undertaking made by the Company in Part II of the Registration Statement to remove from registration, by means of a post-effective amendment, any of the securities registered under the Registration Statement that remain unsold at the termination of the offering, the Company hereby removes from registration all Shares registered under the Registration Statement that remain unsold as of the date of this Post-Effective Amendment No. 1.

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**SIGNATURES**

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this Post-Effective Amendment No. 1 to the Registration Statement on Form S-8 to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Newton, Commonwealth of Massachusetts, on February 25, 2011.

Microfluidics International Corporation

By: /s/ Michael C. Ferrara  
**Michael C. Ferrara**  
**President and Chief Executive Officer**

Pursuant to the requirements of the Securities Act of 1933, this Post-Effective Amendment No. 1 Registration Statement has been signed by the following persons in the capacities and on the dates indicated.

<b>Signature</b>	<b>Title</b>	<b>Date</b>
/s/ Michael C. Ferrara	President, Chief Executive Officer & Director	February 25, 2011
<b>Michael C. Ferrara</b>	(Principal Executive Officer)	
/s/ Peter F. Byczko	Vice President, Finance & Chief Accounting Officer	February 25, 2011
<b>Peter F. Byczko</b>	(Principal Financial and Accounting Officer)	
/s/ George Uveges	Director & Chairman of the Board of Directors	February 25, 2011
<b>George Uveges</b>		
/s/ Henry Kay	Director	February 25, 2011
<b>Henry Kay</b>		
/s/ Stephen J. Robinson	Director	February 25, 2011
<b>Stephen J. Robinson</b>		
/s/ Leo Pierre Roy	Director	February 25, 2011
<b>Leo Pierre Roy</b>		
/s/ Eric G. Walters	Director	February 25, 2011

**Eric G. Walters**