

MICROFLUIDICS INTERNATIONAL CORP
Form 10-Q
August 14, 2009

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

Form 10-Q

(Mark One)

- QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the quarterly period ended June 30, 2009

OR

- TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from to

Commission File Number: 0-11625

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
(Address of principal executive offices)

02464
(Zip Code)

(617) 969-5452
(Registrant's telephone number, including area code)

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 (the "Act") during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T

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(§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

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 <input type="radio"/> | Accelerated filer <input type="radio"/> | Non-accelerated filer <input type="radio"/> (Do not check if a smaller reporting company) | Smaller reporting company <input checked="" type="radio"/> |
|--|---|--|---|

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes No

As of August 14, 2009, 10,383,782 shares of the registrant’s Common Stock, par value \$.01 per share, were outstanding.

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MICROFLUIDICS INTERNATIONAL CORPORATION

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PART I. FINANCIAL INFORMATION
 ITEM 1. FINANCIAL STATEMENTS

MICROFLUIDICS INTERNATIONAL CORPORATION
 Condensed Consolidated Balance Sheets
 (Unaudited - in thousands, except share and per share amounts)

| | June 30, 2009 | December 31, 2008 |
|--|------------------|----------------------|
| ASSETS | | |
| Current assets: | | |
| Cash and cash equivalents | \$ 402 | \$ 1,895 |
| Accounts receivable, net of allowance of \$44 at both June 30, 2009 and December 31, 2008 | 2,788 | 2,181 |
| Inventories | 2,843 | 2,723 |
| Prepaid and other current assets | 285 | 320 |
| Total current assets | 6,318 | 7,119 |
| Property and equipment, net | 1,034 | 1,121 |
| Other non-current assets | 464 | 480 |
| Total assets | \$ 7,816 | \$ 8,720 |
| LIABILITIES AND STOCKHOLDERS' EQUITY | | |
| Current liabilities: | | |
| Accounts payable | \$ 1,151 | \$ 986 |
| Accrued expenses | 938 | 1,233 |
| Customer advances | 409 | 436 |
| Total current liabilities | 2,498 | 2,655 |
| Long-term liabilities | | |
| Convertible debt | 4,652 | 4,625 |
| Total liabilities | 7,150 | 7,280 |
| Stockholders' equity: | | |
| Common stock; \$.01 par value; 30,000,000 and 20,000,000 shares authorized; 10,607,228 and 10,592,228 shares issued; 10,371,782 and 10,356,782 shares outstanding as of June 30, 2009 and December 31, 2008, respectively. | 106 | 106 |
| Additional paid-in capital | 18,135 | 18,042 |
| Accumulated deficit | (16,906) | (16,039) |
| Treasury stock, 235,446 shares, at cost, as of June 30, 2009 and December 31, 2008 | (669) | (669) |
| Total stockholders' equity | 666 | 1,440 |
| Total liabilities and stockholders' equity | \$ 7,816 | \$ 8,720 |

See notes to unaudited condensed consolidated financial statements.

MICROFLUIDICS INTERNATIONAL CORPORATION
Condensed Consolidated Statements of Operations
(Unaudited - in thousands, except share and per share amounts)

| | For The Three Months Ended June 30, | | For The Six Months Ended June 30, | |
|---|--|------------|--------------------------------------|------------|
| | 2009 | 2008 | 2009 | 2008 |
| Revenues | \$ 3,469 | \$ 4,374 | \$ 7,028 | \$ 7,896 |
| Cost of sales | 1,493 | 2,225 | 3,146 | 3,834 |
| Gross profit | 1,976 | 2,149 | 3,882 | 4,062 |
| Operating expenses: | | | | |
| Research and development | 393 | 572 | 845 | 1,062 |
| Selling | 913 | 1,196 | 2,129 | 2,128 |
| General and administrative | 722 | 1,175 | 1,526 | 2,118 |
| Total operating expenses | 2,028 | 2,943 | 4,500 | 5,308 |
| Loss from operations | (52) | (794) | (618) | (1,246) |
| Interest expense | (126) | (6) | (252) | (10) |
| Interest income | 1 | 10 | 3 | 21 |
| Net loss | \$ (177) | \$ (790) | \$ (867) | \$ (1,235) |
| Net loss per common share: | | | | |
| Basic | \$ (0.02) | \$ (0.08) | \$ (0.08) | \$ (0.12) |
| Diluted | \$ (0.02) | \$ (0.08) | \$ (0.08) | \$ (0.12) |
| Weighted average number of common and common equivalent shares outstanding: | | | | |
| Basic | 10,371,782 | 10,267,981 | 10,371,205 | 10,267,981 |
| Diluted | 10,371,782 | 10,267,981 | 10,371,205 | 10,267,981 |

See notes to unaudited condensed consolidated financial statements.

MICROFLUIDICS INTERNATIONAL CORPORATION
Condensed Consolidated Statements of Cash Flows
(Unaudited - in thousands)

| | For The Six Months Ended | |
|---|--------------------------|------------|
| | June 30, | |
| | 2009 | 2008 |
| Cash flows from operating activities: | | |
| Net loss | \$ (867) | \$ (1,235) |
| Adjustments to reconcile net loss to net cash flows: | | |
| Depreciation and amortization | 195 | 80 |
| Provision for obsolete inventory | — | (18) |
| Share-based compensation | 88 | 108 |
| Changes in assets and liabilities: | | |
| Accounts receivable | (607) | 332 |
| Inventories | (120) | (267) |
| Prepaid expenses and other current assets | 43 | (407) |
| Accounts payable | 165 | 1,320 |
| Accrued expenses | (295) | 344 |
| Customer advances | (27) | 55 |
| Net cash flows (used in) provided by operating activities | (1,425) | 312 |
| Cash flows from investing activities: | | |
| Purchase of property, plant and equipment | (72) | (603) |
| Net cash flows used in investing activities | (72) | (603) |
| Cash flows from financing activities: | | |
| Proceeds from borrowings on revolver loan | — | 1,012 |
| Payments on bank line of credit | — | (262) |
| Principal repayments on long-term debt and obligations under capital leases | — | (65) |
| Net proceeds from issuance of common stock | 4 | 11 |
| Net cash flows provided by financing activities | 4 | 697 |
| Net change in cash and cash equivalents | (1,493) | 406 |
| Cash and cash equivalents at beginning of period | 1,895 | 756 |
| Cash and cash equivalents at end of period | \$ 402 | \$ 1,162 |

See notes to unaudited condensed consolidated financial statements.

MICROFLUIDICS INTERNATIONAL CORPORATION
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (Unaudited)

1. Description of Business

Company Overview

References herein to “we”, “us”, “our”, or “the Company” are to Microfluidics International Corporation.

We, through our wholly-owned subsidiary, Microfluidics Corporation (“Microfluidics”), operate in one segment, producing and marketing a broad line of proprietary high-shear fluid processing systems used primarily in the pharmaceutical, biotechnology, digital ink, microelectronics, food, chemical and personal care industries.

The condensed consolidated financial statements include the accounts of our Company and our wholly-owned subsidiary, Microfluidics. All intercompany balances and transactions have been eliminated.

Our corporate headquarters and manufacturing operations are located in Newton, Massachusetts.

Certain accounts in the condensed consolidated financial statements and related notes have been reclassified to conform to current period presentation.

2. Interim Financial Statements

The condensed consolidated financial information for the three and six months ended June 30, 2009 are unaudited but includes all adjustments (consisting only of normal recurring adjustments) that the Company considers necessary for a fair presentation of the financial position at such date and of the operating results and cash flows for the period. The results of operations for the three and six months ended June 30, 2009 and 2008 are not necessarily indicative of results that may be expected for the entire year. The information contained in this Form 10-Q should be read in conjunction with the Company’s audited financial statements, included in its Annual Report on Form 10-K as of and for the year ended December 31, 2008 filed with the Securities and Exchange Commission (“SEC”) on March 30, 2009.

The balance sheet as of December 31, 2008 has been derived from our audited consolidated financial statements at that date but does not include all of the information and footnotes required by generally accepted accounting principles for complete financial statements.

3. Significant Accounting Policies

The significant accounting policies followed by the Company and its subsidiary in preparing its unaudited condensed consolidated financial statements are set forth in Note 1 to the consolidated financial statements included in the Company’s Annual Report on Form 10-K for the year ended December 31, 2008.

4. Revenue Recognition

We recognize revenue in accordance with Staff Accounting Bulletin (“SAB”) No. 104, “Revenue Recognition in Financial Statements”. Revenue is recognized when all of the following criteria are met: i) persuasive evidence of an arrangement exists, ii) delivery has occurred, iii) the price to the customer is fixed and determinable, and iv) collectability is reasonably assured. In revenue transactions where support services are requested, revenue is recognized on shipment since the support service obligation is not essential to the functionality of the delivered products. Revenue transactions involving non-essential support services obligations are those which can generally be

completed in a short period of time at insignificant cost and the skills required to complete these support services are not unique to us and in many cases can be provided by third parties or the customers. The customer's purchase obligations are not contingent upon performance of support services, if any, by us. Proceeds received in advance of product shipment are recorded as customer advances in the consolidated balance sheets. Returns and customer credits are infrequent and recorded as a reduction to sales. Rights of returns are not included in sales arrangements. Discounts from list prices are recorded as a reduction to sales. On occasion, we provide machines for rent by customers. Income for the rental of equipment is recognized on a straight-line basis over the rental term. Rental income and product sales are classified in revenues in the consolidated statements of operations.

5. Recent Accounting Pronouncements

In May 2009, the Financial Accounting Standards Board ("FASB") issued Statement of Financial Accounting Standards ("SFAS") No. 165, "Subsequent Events." SFAS No. 165 identifies the following: the period after the balance sheet date during which management shall evaluate events or transactions that may occur for potential recognition or disclosure in the financial statements; the circumstances under which an entity shall recognize events or transactions occurring after the balance sheet date in its financial statements; and the disclosures that an entity shall make about events or transactions that occurred after the balance sheet date. This statement is effective for the Company's second quarter 2009, and there was no effect from adoption of this standard.

MICROFLUIDICS INTERNATIONAL CORPORATION
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (Unaudited)

In June 2009, the FASB issued SFAS No. 168, "The FASB Accounting Standards Codification and the Hierarchy of Generally Accepted Accounting Principles." Upon its effective date, the "FASB Accounting Standards Codification," or the Codification, is the single source of authoritative nongovernmental generally accepted accounting principles in the U.S. (GAAP). The Codification is effective for interim and annual periods ending after September 15, 2009. The adoption of the Codification will have no impact on the Company's financial position or results of operations.

In September 2006, the FASB issued Statement of Financial Accounting Standards ("SFAS") No. 157, "Fair Value Measurements." This new standard provides guidance for using fair value to measure assets and liabilities. The FASB believes SFAS No. 157 also responds to investors' requests for expanded information about the extent to which companies measure assets and liabilities at fair value, the information used to measure fair value, and the effect of fair value measurements on earnings. SFAS No. 157 applies whenever other standards require (or permit) assets or liabilities to be measured at fair value but does not expand the use of fair value in any new circumstances. SFAS No. 157 is effective for fiscal years beginning after November 15, 2007.

In February 2007, the FASB issued SFAS No. 159, "The Fair Value Option for Financial Assets and Financial Liabilities," which provides companies with an option to report selected financial assets and liabilities at fair value. The objective of SFAS No. 159 is to reduce both complexity in accounting for financial instruments and the volatility in earnings caused by measuring related assets and liabilities differently. SFAS No. 159 establishes presentation and disclosure requirements designed to facilitate comparisons between companies that choose different measurement attributes for similar types of assets and liabilities and to more easily understand the effect of the company's choice to use fair value on its earnings. SFAS No. 159 also requires entities to display the fair value of the selected assets and liabilities on the face of the balance sheet. SFAS No. 159 does not eliminate disclosure requirements of other accounting standards, including fair value measurement disclosures in SFAS No. 157. This Statement is effective as of the beginning of an entity's first fiscal year beginning after November 15, 2007.

On January 1, 2008, we adopted both SFAS No. 157 and SFAS No. 159, neither of which had any material impact on our results of operations or financial position.

In December 2007, the FASB issued SFAS No. 160, "Noncontrolling Interests in Consolidated Financial Statements" ("SFAS No. 160"). SFAS No. 160 clarifies that a non-controlling or minority interest in a subsidiary is considered an ownership interest and accordingly, requires all entities to report such interests in subsidiaries as equity in the consolidated financial statements. SFAS No. 160 is effective for fiscal years beginning after December 15, 2008. On January 1, 2009 we adopted SFAS No. 160 which did not have a material effect on our results or financial position.

6. Stock Based Compensation

The Company accounts for stock-based compensation in accordance with SFAS No. 123R, "Share-based Payment" which was adopted January 1, 2006, using the modified prospective transition method.

For the three month periods ended June 30, 2009 and 2008, the Company recognized stock based compensation expense of \$62,000 and \$54,000, respectively. For the six month periods ended June 30, 2009 and 2008, the Company recognized stock based compensation expense of \$88,000 and \$108,000, respectively. Stock-based compensation expense for the three and six month periods ended June 30, 2009 and 2008 is included in General and Administrative expense of the unaudited condensed consolidated statement of operations.

The Company did not capitalize any stock-based compensation. The Company has established a valuation allowance for net deferred tax assets. Accordingly, no significant tax benefit on the stock-based compensation was recorded during the three and six month periods ended June 30, 2009 and 2008.

The fair value of each option granted during the three and six month periods ended June 30, 2009 and 2008 is estimated on the date of grant using the Black-Scholes option pricing model with the following weighted average assumptions:

| | Three Months Ended | | Six Months Ended | |
|-------------------------|--------------------|-----------|------------------|-----------|
| | June 30, | | June 30, | |
| | 2009 | 2008 | 2009 | 2008 |
| Dividend yield | None | None | None | None |
| Expected volatility | 111.00 | 106.00 | 111.00 | 106.00 |
| Risk-free interest rate | 2.00% | 3.34% | 2.00% | 3.34% |
| Expected life | 5.0 years | 5.0 years | 5.0 years | 5.0 years |

The weighted average fair value of stock options granted during the six months ended June 30, 2009 and 2008 was \$0.54 and \$1.11 per share, respectively. We estimate forfeitures related to option grants at an annual rate of 11% and 9% for 2009 and 2008, respectively.

Total unrecognized stock-based compensation expense related to unvested stock options, expected to be recognized over a weighted average period of 5 years, amounted to approximately \$770,000 at June 30, 2009.

MICROFLUIDICS INTERNATIONAL CORPORATION
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (Unaudited)

The Company has three (3) shareholder approved stock option plans (collectively, the “Stock Option Plans”) as follows: (i) the 1988 Stock Plan, which authorized the grant of stock rights for up to 3,500,000 shares of common stock (the “1988 Plan”); (ii) the 1989 Non-Employee Director Stock Option Plan (the “1989 Plan”), which authorized the grant of nonqualified stock options for up to 500,000 shares of common stock; and (iii) the 2006 Stock Plan (the “2006 Plan”) which authorizes the grant of stock rights for up to 4,000,000 shares of common stock, increased by the number of shares of common stock underlying unexercised options issued under either the 1988 Plan or the 1989 Plan (collectively referred to herein as the “Prior Plans”) that expire after June 20, 2006, and decreased by the number of shares of common stock issued and issuable pursuant to options outstanding under the Prior Plans. The 2006 Plan was approved by our shareholders at the Annual Meeting of Shareholders held on June 20, 2006. Upon adoption of the 2006 Plan by our shareholders, we ceased granting new options under the Prior Plans. The Prior Plans permitted, and the 2006 Plan permits, the granting of stock awards to employees, officers, and non-employee members of the Board of Directors. Options granted under the Prior Plans and the 2006 Plan permit vesting over a 3-to-5 year period and expire 5-to-10 years from the date of grant.

At June 30, 2009, 661,000 shares were available for future grants under the 2006 Plan and no shares were available for future grants under the Prior Plans.

During the three months ended June 30, 2009 and 2008, the Company issued 150,000 and 182,175 stock options pursuant to the 2006 Plan, respectively, at exercise prices equal to or greater than the fair market value of the Company’s common stock on the date of the grant. During the six months ended June 30, 2009 and 2008, the Company issued 535,000 and 408,597 stock options, pursuant to the 2006 Plan, respectively, at exercise prices equal to or greater than the fair market value of the Company’s common stock on the date of the grant.

Information regarding option activity for the six months ended June 30, 2009 under the 2006 Plan is summarized below:

| | Options Outstanding | Weighted Average Exercise Price per Share | Weighted Average Remaining Contractual Term in Years |
|---|------------------------|---|---|
| Options outstanding as of January 1, 2009 | 1,284,682 | \$ 1.37 | 4.55 |
| Granted | 535,000 | 0.54 | 10.00 |
| Exercised | — | — | — |
| Cancelled | (360,073) | 1.14 | — |
| Options outstanding as of June 30, 2009 | 1,459,609 | \$ 1.10 | 8.39 |
| Options exercisable as of June 30, 2009 | 532,959 | \$ 1.51 | 6.66 |

7. Inventories

Inventories consist of the following:

| (in thousands) | June 30, 2009 | December 31, 2008 |
|----------------|------------------|----------------------|
| Raw materials | \$ 2,121 | \$ 2,485 |

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| | | |
|--------------------------------------|----------|----------|
| Work in progress | 334 | 63 |
| Finished goods | 584 | 371 |
| | 3,039 | 2,919 |
| Less: provision for excess inventory | (196) | (196) |
| Total inventories | \$ 2,843 | \$ 2,723 |

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MICROFLUIDICS INTERNATIONAL CORPORATION
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (Unaudited)

8. Property, Plant and Equipment

Property, plant and equipment consist of the following:

| (in thousands) | June 30, 2009 | December 31, 2008 |
|---|------------------|----------------------|
| Furniture, fixtures and office equipment | \$ 907 | \$ 893 |
| Machinery, equipment and tooling | 530 | 505 |
| Leasehold improvements | 902 | 869 |
| | 2,339 | 2,267 |
| Less: accumulated depreciation and amortization | (1,305) | (1,146) |
| | \$ 1,034 | \$ 1,121 |

For the three months ended June 30, 2009 and 2008, depreciation expense was approximately \$80,000 and \$39,000, respectively. For the six months ended June 30, 2009 and 2008, depreciation expense was approximately \$159,000 and \$78,000, respectively.

9. Accrued Expenses

Accrued expenses consist of the following:

| (in thousands) | June 30, 2009 | December 31, 2008 |
|--------------------------------|------------------|----------------------|
| Accrued expenses | \$ 266 | \$ 549 |
| Accrued wages and vacation pay | 221 | 360 |
| Accrued commissions | 392 | 253 |
| Accrued warranty | 59 | 71 |
| | \$ 938 | \$ 1,233 |

10. Earnings Per Share

Basic net (loss) per common share was determined by dividing net (loss) applicable to common stockholders by the weighted average number of common shares outstanding during the period. Diluted net (loss) per share reflects the potential dilution that could occur if securities or other contracts to issue common stock were exercised or converted into common stock or resulted in the issuance of common stock, unless the effects of dilution would be anti-dilutive.

| (in thousands) | Three Months Ended June 30, | | Six Months Ended June 30, | |
|--|--------------------------------|--------|------------------------------|--------|
| | 2009 | 2008 | 2009 | 2008 |
| Shares for computation of basic net loss per share | 10,372 | 10,268 | 10,371 | 10,268 |
| Shares for computation of diluted net loss per share | 10,372 | 10,268 | 10,371 | 10,268 |

MICROFLUIDICS INTERNATIONAL CORPORATION
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (Unaudited)

11. Industry Segment, Geographic and Enterprise-Wide Information

SFAS No. 131, "Disclosures about Segments of an Enterprise and Related Information," requires companies to report selected information about operating segments, as well as enterprise-wide disclosures about products, services, geographic areas and major customers. Operating segments are determined based on the way management organizes its business for making operating decisions and assessing performance. The Company's chief decision-maker, as defined under SFAS No. 131, is the president and chief executive officer. The Company has determined that it conducts its operations in one business segment: the development, manufacture, marketing and sale of process and formulation equipment. The Company's sales are primarily to companies with processing needs in the pharmaceutical, biotechnology, chemical, food, and cosmetic industries. The Company has less than 1% of total assets in foreign countries. As a result, the financial information disclosed herein represents all of the material financial information related to the Company's principal operating segment.

Approximate sales to customers by geographic markets, and percentage of total sales by geographic market, are as follows:

| (in thousands) | Three Months Ended June 30, | | | | Six Months Ended June 30, | | | |
|----------------|--------------------------------|--------|----------|--------|------------------------------|--------|----------|---------|
| | 2009 | | 2008 | | 2009 | | 2008 | |
| North America | \$ 1,545 | 44.5% | \$ 1,430 | 32.7% | \$ 3,984 | 56.7% | \$ 2,921 | 37.0 % |
| Asia | 846 | 24.4% | 405 | 9.3% | 1,242 | 17.7% | 1,070 | 13.5 % |
| Europe | 1,078 | 31.1% | 2,539 | 58.0% | 1,802 | 25.6% | 3,905 | 49.5 % |
| | \$ 3,469 | 100.0% | \$ 4,374 | 100.0% | \$ 7,028 | 100.0% | \$ 7,896 | 100.0 % |

The users of the Company's systems are in various industries, including the pharmaceutical, biotechnology, chemical, food, and cosmetic industries.

For the three months ended June 30, 2009 one customer accounted for greater than 12.8% of revenue. For the three months ended June 30, 2008, two customers accounted for 28.6% and 13.8% respectively, of the Company's revenues. For the six months ended June 30, 2009 no customer accounted for more than 10% of revenue. For the six month period ended June 30, 2008, one customer accounted for 25.9% of the Company's revenues.

Two customers each accounted for 10% of the trade accounts receivable as of June 30, 2009 and two customers accounted for 14.9% and 13.2%, respectively, of the trade accounts receivable as of June 30, 2008. A reduction or delay in orders from any of the Company's significant customers could have a material adverse effect on the Company's results of operations.

12. Stockholders' Equity

During the three and six months ended June 30, 2009 and June 30, 2008, the Company issued no shares of common stock as a result of the exercise of options by employees and directors.

During each of the three months ended June 30, 2009 and 2008, the Company issued no shares of common stock as a result of the purchase of shares under the Company's Employee Stock Purchase Plan, ("the Employee Stock Purchase

Plan”).

During the six months ended June 30, 2009 and 2008, the Company issued 15,000 and 11,249 shares, respectively, of common stock as a result of the purchase of shares under the Employee Stock Purchase Plan, generating cash proceeds of approximately \$4,000 and \$11,000, respectively.

13. Credit Facility

On June 30, 2008, the Company and its wholly owned subsidiary, Microfluidics Corporation, entered into a Loan and Security Agreement (the “Domestic Loan Agreement”) with Silicon Valley Bank (“SVB”), which it used to payoff its previous loan agreement with T.D. Bank N.A., formerly known as TD Banknorth, N.A. and prior to that Banknorth, N.A. (“Banknorth”), in the amount of \$1,000,000 in principal, and approximately \$12,000 in interest and legal fees.

On July 2, 2008, the Company and SVB entered into an Export-Import Bank Loan and Security Agreement (the “Export-Import Loan Agreement”) and together with the Domestic Loan Agreement, created the “SVB Loan Agreement”.

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MICROFLUIDICS INTERNATIONAL CORPORATION
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (Unaudited)

The SVB Loan Agreement provided the Borrower with a revolving line of credit (“Revolving Line of Credit”). The Revolving Line of Credit had a two-year term and allowed for a maximum outstanding balance of \$2,500,000. The principal amount outstanding under the SVB Loan Agreement accrued interest at a per annum rate equal to: (a) the greater of (i) five percent (5.00%) or (ii) the Lender’s most recently announced “prime rate,” even if it is not the Lender’s lowest rate, plus (b) one percent (1.00%). SVB’s prime rate as of July 7, 2008 was 5.00%. Interest was payable on the last business day of each month. The Company was also required to maintain two financial covenants, and additional affirmative covenants. The Revolving Line of Credit was repaid in connection with the issuance of the Debenture, as described in Note 14.

14. Long-Term Debt

Long-term debt as of the following dates consisted of:

| (in thousands) | June 30, 2009 | December 31, 2008 |
|--|------------------|----------------------|
| Convertible debt, (net of discount of \$348 in 2009 and \$375 in 2008) | \$ 4,652 | \$ 4,625 |
| Less: current portion | — | — |
| Long-term debt, net of current portion | \$ 4,652 | \$ 4,625 |

On November 14, 2008, the Company issued a convertible debenture (the “Debenture”) with a principal face value of \$5,000,000 and a warrant (the “Warrant”) to Global Strategic Partners, LLC, a Delaware limited liability company (“GSP”) pursuant to a Debenture and Warrant Purchase Agreement (the “Agreement”). The principal of the Debenture will mature and be payable on November 14, 2015. Interest on the Debenture at a rate of nine percent (9.0%) per annum is payable quarterly. Upon occurrence of certain events of default, as defined in the Debenture, all amounts will be immediately due and payable. The Debenture is secured by all assets, property rights and interests of the Company. It shall be senior to all other indebtedness of the Company, except for certain bank guarantees as defined in the Debenture. In connection with the issuance of the Debenture, the Company repaid the entire amount due under Revolving Line of Credit. The payoff amount was approximately \$1,050,000.

In May 2009 the Company and GSP agreed to defer the interest payments due and payable on each of July 1, 2009, October 1, 2009 and January 4, 2010. The deferred payments will accrue interest at nine percent per annum and will be payable in eight equal quarterly installments on the first day of each such quarter beginning on April 1, 2010.

At the election of GSP, the Debenture is convertible in whole or part, into the Company’s common stock, par value \$0.01 per share, on the maturity date, the date that any interest payment is due, or the date on which a change of control occurs into a number of shares of our common stock equal to the quotient of (i) the outstanding principal amount of the Debenture, divided by (ii) \$1.25.

15. Income Taxes

The Company provides for income taxes at the end of each interim period based on the estimated effective tax rate for the full fiscal year. Cumulative adjustments to the tax provision are recorded in the interim period in which a change in the estimated annual effective rate is determined. The effective tax rate calculation includes determining both the current and deferred income tax expense as well as accounting for the differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax basis. The future tax consequences attributable to these differences result in deferred tax assets and liabilities, which are included on our consolidated balance sheets. We must assess the recoverability of the deferred tax assets by considering whether it is “more likely

than not” that some portion or all of the deferred tax assets will be realized. To the extent we believe that recovery does not meet this “more likely than not” standard as required in SFAS No. 109, “Accounting for Income Taxes”, we must establish a valuation allowance. Changes in the valuation allowance are reflected in determining the effective tax rate for the year.

For the three and six months ended June 30, 2009, the Company recognized no tax provision or benefit due to the loss from operations, nor adjusted the Company’s full valuation allowance against its net deferred tax assets.

16. Subsequent Events

The Company has assessed the impact of subsequent events through August 14, 2009, the date of the issuance of the consolidated financial statements, and has concluded that there were no such events that require adjustment to the consolidated financial statements or disclosure in the notes to the consolidated financial statements.

Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations

Future Operating Results

This report contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 as contained in Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. You can identify these statements by the fact that they use words such as "anticipate," "believe," "estimate," "expect," "intend," "project," "plan," "outlook," and other words and terms of similar meaning. These statements involve a number of risks and uncertainties that could cause actual results to differ materially from the potential results discussed in the forward-looking statements. Among the factors that could cause actual results and outcomes to differ materially from those contained in such forward-looking statements are the following: our ability to access sufficient working capital, including a new working capital line; our continued compliance with the representations, warranties and covenants under our existing convertible debenture; our continued history of losses, which includes net losses in three of the last five fiscal years; the timing and size of customer orders for our products; the adoption, timing and performance of new technology and products developed by us; changes and advances in technology that may make our products obsolete or reduce demand for our products; our ability to protect and maintain the confidentiality of our intellectual property; our ability to retain key employees and our reliance on a new management team; changes in governmental rules and regulations, including those regulating the exportation of goods; and general economic and business conditions and the financial crisis, including those adversely affecting the pharmaceutical and biotechnology industries. For a more detailed discussion of risks and uncertainties which could cause actual results to differ from those contained in our forward-looking statements, see Item 1A, "Risk Factors" of our most recently filed Quarterly Report on Form 10-Q for the quarter ended June 30, 2009 and our other periodic reports filed with the SEC. You should not place undue reliance on our forward-looking statements, which speak only as of the date they are made. We are providing this information as of this date, and we do not undertake to update the information included in this press release, whether as a result of new information, future events or otherwise.

Overview

We have, for over 20 years, specialized in manufacturing and marketing a broad line of high shear fluid processing systems used in numerous applications in the pharmaceutical, biotech, chemical food and cosmetics industries.

Our line of high shear fluid processor equipment, marketed under our Microfluidizer trademark and trade name (Microfluidizer®), process premixed formulations to produce small uniform structures, usually of the submicron and nanoscale size (commonly defined as particles having dimensions less than 100 nanometers) including nanostructures, microemulsions and nanosuspensions. The equipment produces commercial quantities of such materials important to producers of pharmaceuticals, coatings and other products. Further, our process equipment allows our customers to scale up formulations and results from 10 milliliters per minute on our laboratory and bench top models to more than 15 gallons per minute on our pilot and production models.

The technology embodied within our Microfluidizer high shear fluid processor is used for formulation of products that are normally very difficult to mix and stabilize. Microfluidizer processors through process intensification allow manufacturers in the pharmaceutical, biotechnology, chemical, cosmetic, and food processing industries to produce higher quality products with better characteristics on a more consistent basis than with other blending, mixing or homogenizing techniques. Additionally, the equipment is used for cell disruption to harvest the cultivated contents of bacterial, yeast, mammalian and/or plant cells and for liposomal encapsulation of materials for the biotech/biopharma and cosmetics industries.

We have begun to take steps toward commercializing our proprietary equipment, processes and technology for the continuous production of precipitated submicron or nanoscale particles by interaction of discrete streams of reacting materials, through a novel adaptation of our Microfluidizer processor equipment that permits the mixing of, and reactions between, streams of different solutions at high pressures. We refer to this technology as a Multiple Stream

High Pressure Mixer/Reactor (MMR). In August 1997, we filed a patent application for the device and its processes with the United States Patent and Trademark Office (USPTO), and filed a Patent Cooperation Treaty (PCT) application on May 5, 1998. In July and November 2000, the USPTO issued notices of allowances of utility patent claims regarding the MMR and the use thereof.

On September 18, 2002, the European Patent Office advised us it would grant our MMR patent substantially as applied for, including our device and process claims. We have gained national entry of the patent in France, Germany, Italy, The Netherlands, and the United Kingdom. We are still pursuing the allowance of the patent in Canada. Our management believes that future commercialization and growth of nanotechnology may be, in large part, enabled by the manufacturing capability of our materials processor and MMR equipment.

We continue our efforts to commercialize our proprietary equipment, processes and technology for the continuous production of precipitated submicron or nanoscale particles by interaction of discrete streams of reacting materials (“Microfluidics Reaction Technology” or “MRT”). We intend to pursue patent protection in the United States and select foreign jurisdictions with respect to proprietary aspects of our MRT. U.S. Patent filing commenced in March 2008 and Patent Convention Treaty (PCT) filing commenced in March 2009 with national patents expected to follow in approximately 12-18 months.

Critical Accounting Policies

Our significant accounting policies are summarized in Note 1 to our consolidated financial statements included in Item 8 of our Annual Report on Form 10-K for the period ended December 31, 2008 as filed with the SEC. Certain of our accounting policies require the application of significant judgment by our management, and such judgments are reflected in the amounts reported in our consolidated financial statements. In applying these policies, our management uses their judgment to determine the appropriate assumptions to be used in the determination of estimates. Those estimates are based on our historical experience, terms of existing contracts, our observance of market trends, information provided by our strategic partners and information available from other outside sources, as appropriate. Actual results may differ significantly from the estimates contained in our consolidated financial statements. Our critical accounting policies are as follows:

Revenue Recognition. We recognize revenue in accordance with Staff Accounting Bulletin (“SAB” No. 104, “Revenue Recognition in Financial Statements”). Revenue is recognized when all of the following criteria are met: i) persuasive evidence of an arrangement exists, ii) delivery has occurred, iii) the price to the customer is fixed and determinable, and iv) collectability is reasonably assured. In revenue transactions where support services are requested, revenue is recognized on shipment since the support service obligation is not essential to the functionality of the delivered products. Revenue transactions involving non-essential support services obligations are those which can generally be completed in a short period of time at insignificant cost and the skills required to complete these support services are not unique to us and in many cases can be provided by third parties or the customers. The customer’s purchase obligations are not contingent upon performance of support services, if any, by us. Proceeds received in advance of product shipment are recorded as customer advances in the consolidated balance sheets. Returns and customer credits are infrequent and recorded as a reduction to sales. Rights of returns are not included in sales arrangements. Discounts from list prices are recorded as a reduction to sales. On occasion, we provide machines for rent by customers. Income for the rental of equipment is recognized on a straight-line basis over the rental term. Rental income and product sales are classified in revenues in the consolidated statement of operations.

Accounts Receivable Valuation. We perform various analyses to evaluate accounts receivable balances and record an allowance for bad debts based on the estimated collectability of the accounts, such that the amounts reflect estimated net realizable value. If actual uncollectible amounts significantly exceed the estimated allowance, our operating results would be significantly and adversely affected.

Inventory Valuation. We value our inventory at the lower of our actual cost or the current estimated market value. We regularly review inventory quantities on hand and inventory commitments with suppliers and record a provision for excess and obsolete inventory based primarily on our historical usage for the prior twenty-four month period. Although we make every effort to ensure the accuracy of our forecasts of future product demand, any significant unanticipated change in demand or technological developments could have a significant impact on the value of our inventory and our reported operating results.

Product Warranties. Our products are generally sold with a twelve month warranty provision that requires us to remedy deficiencies in quality or performance of our products at no cost to our customers only after it has been determined that the cause of the deficiency is not due to the actions of the machine operator or product used in the machine. We have established a policy for replacing parts that wear out or break prematurely. The policy calls for replacing the parts or repairing a machine within one year of the sale. Commencing in May of 2006, we amended our warranty by limiting to a period of 90 days our warranty coverage on certain critical wear items. We are now selling more advanced processor production systems than past years that may require more costly parts.

Results of Operations

Three Months Ended June 30, 2009 vs. June 30, 2008

Revenues

Total revenues for the three months ended June 30, 2009 were approximately \$3,469,000, as compared to revenues of \$4,374,000 for the comparable prior year period, a decrease of approximately \$905,000, or 20.7%.

North American sales for the three months ended June 30, 2009 increased to approximately \$1,545,000, or 8.0% as compared to sales of approximately \$1,430,000 for the three months ended June 30, 2008. The increase in North American sales was principally due to an increase in the sale of production machines of approximately \$475,000, offset in part by a decrease in the sale of spare parts of \$417,000.

Foreign sales were approximately \$1,924,000 for the three months ended June 30, 2009, compared to \$2,944,000 for the three months ended June 30, 2008, a decrease of \$1,020,000, or 34.6% primarily resulting from an abnormally high number of production machines sold in Europe to the pharmaceutical industry during the second quarter of 2008.

Due to the nature of the sale of capital equipment, one specific quarter can be impacted by the timing of the sale of one or more production machines.

Cost of Goods Sold

Cost of goods sold for the three months ended June 30, 2009 was approximately \$1,493,000, or 43.0% of revenue, compared to \$2,225,000, or 50.9% of revenue, for the comparable prior year period.

The decrease in cost of sales in absolute dollars for the three months ended June 30, 2009, reflects the overall decrease in sales. The Company's major product lines have different profit margins, as well as multiple profit margins within each product line. The decrease in cost of goods sold as a percentage of sales is primarily attributable to the sales price increase taking effect during the quarter and a higher percentage of sales coming from larger production machines with better margins.

Research and Development Expenses

Research and development expenses for the three months ended June 30, 2009 were approximately \$393,000, compared to \$572,000 for the comparable prior year period, a decrease of approximately \$179,000, or 31.3%. The decrease in research and development expenses was primarily due to planned decreases in payroll and related costs of approximately \$131,000 and a decrease in expenditures on consultants of \$38,000.

Selling Expenses

Selling expenses for the three months ended June 30, 2009 were approximately \$913,000, compared to \$1,196,000 for the comparable prior year period, a decrease of \$283,000, or 23.7%. The decrease is primarily attributable to planned decreases in payroll and related costs of approximately \$62,000, a decrease in travel and entertainment of approximately \$52,000, a decrease in freight charges of approximately \$49,000, a decrease in advertising expense of approximately \$42,000, and a decrease in sales meeting expense of approximately \$35,000.

General and Administrative Expenses

General and administrative expenses for the three months ended June 30, 2009, were approximately \$722,000, compared to \$1,175,000 for the comparable prior year period, a decrease of \$453,000, or 38.6%. The decrease is primarily attributable to planned decreases in payroll and related costs of approximately \$225,000, a decrease in consultant's costs of approximately \$140,000, a decrease in professional fees of approximately \$83,000 and a decrease in office supplies costs of approximately \$22,000.

Interest Income and Expense

Interest expense for the three months ended June 30, 2009 was approximately \$126,000 compared to \$6,000 for the comparable prior year period, an increase of approximately \$120,000. The increase is due to interest payments on the \$5 million of convertible debt that we issued in November 2008. The convertible debt bears a fixed rate of interest of 9%.

Interest income for the three months ended June 30, 2009 was approximately \$1,000 compared to \$10,000 for the comparable prior year period, a decrease of \$9,000. This decrease is due to a decrease in cash available for investment.

Income Tax Provision

For the three months ended June 30, 2009 and 2008 the Company recognized no tax benefit on the loss from operations, as the Company maintains a full valuation allowance against its deferred tax assets.

Six Months Ended June 30, 2009 vs. June 30, 2008

Revenues

Total revenues for the six months ended June 30, 2009 were approximately \$7,028,000, as compared to revenues of \$7,896,000 for the comparable prior year period, a decrease of approximately \$868,000, or 11.0%.

North American sales for the six months ended June 30, 2009 increased to approximately \$3,984,000, a 36.4% increase, as compared to sales of approximately \$2,921,000 for the six months ended June 30, 2008. The increase in North American sales was principally due to an increase in the sale of machines of approximately \$1,725,000.

Foreign sales were approximately \$3,044,000 for the six months ended June 30, 2009, compared to \$4,975,000 for the six months ended June 30, 2008, a decrease of \$1,931,000, or 38.8% primarily resulting from an abnormally high number of production machines sold in Europe to the pharmaceutical industry during the second quarter of 2008, offset partially by an increase in the sales of spare parts of approximately \$173,000.

Due to the nature of the sale of capital equipment, one specific quarter can be impacted by the timing of the sale of one or more production machines.

Cost of Goods Sold

Cost of goods sold for the six months ended June 30, 2009 was approximately \$3,146,000, or 44.8% of revenue, compared to \$3,834,000, or 48.9% of revenue, for the comparable prior year period.

The Company's major product lines have different profit margins, as well as multiple profit margins within each product line. The decrease in cost of goods sold as a percentage of sales is attributable to the sales price increase taking effect during the second quarter of this year and better margins on large production machines

Research and Development Expenses

Research and development expenses for the six months ended June 30, 2009 were approximately \$845,000, compared to \$1,062,000 for the comparable prior year period, a decrease of approximately \$217,000, or 20.4%. The decrease in research and development expenses was primarily due to planned decreases in payroll and related costs of approximately \$117,000, consultant costs of approximately \$72,000 and research and laboratory supplies of approximately \$28,000.

Selling Expenses

Selling expenses for the six months ended June 30, 2009 were approximately \$2,129,000 compared to \$2,128,000 for the comparable prior year period, an increase of \$1,000. Increases in payroll and related costs of approximately \$152,000, and commission expense of \$69,000 were offset by a decrease in advertising expense of \$62,000, a decrease in sales meeting expenses of \$35,000 and a decrease of consulting and professional fees of \$70,000. The increase in payroll is attributable to the hiring of a more experienced sales staff. The significant decrease in commission expense was primary attributable to the sale of production units directly to customers that had no outside representative for the region in which the unit was sold, resulting in non-commissionable sales.

General and Administrative Expenses

General and administrative expenses for the six months ended June 30, 2009, were approximately \$1,526,000, compared to \$2,118,000 for the comparable prior year period, a decrease of \$592,000, or 28.0%. The decrease in general and administrative expenses is principally due to a reduction in overall headcount and related costs of approximately \$325,000, a decrease in consultant and professional fees of approximately \$322,000, and a decrease in recruiting costs of approximately \$53,000 partially offset by an increase corporate expenses of \$79,000 which consist primarily of severance charges for terminated employees.

Interest Income and Expense

Interest expense for the six months ended June 30, 2009 was approximately \$252,000 compared to \$10,000 for the comparable prior year period, an increase of approximately \$242,000. The increase is due to interest payments on the \$5 million of convertible debt that we issued in November 2008 to an accredited investor. The convertible debt bears a fixed rate of interest of 9%.

Interest income for the six months ended June 30, 2009 was approximately \$3,000 compared to \$21,000 for the comparable prior year period, a decrease of \$18,000. The decrease is due to a decrease in cash available for investment.

Income Tax Provision

For the six months ended June 30, 2009 and 2008 the Company recognized no tax benefit due on the loss from operations, as the Company maintains a full valuation allowance against its deferred tax assets.

Liquidity and Capital Resources

Liquidity

We fund our working capital requirements primarily through operations and customer deposits. We expect to fund our liquidity requirements, including interest on our convertible debt and capital expenditures, primarily through revenue and bookings for which we receive deposits in advance of shipment.

We anticipate that with our expected revenues and customer deposits, together with our existing cash balance at June 30, 2009, we will have sufficient capital to meet our working capital requirements for the next twelve months if our cost cutting is successful. However, given fluctuations in the timing and size of customer orders and deposits, we are working on securing a working capital line to improve cash management and provide the business greater short-term liquidity. If we do not achieve the revenues and customer deposits as and when planned, we may need to access additional sources of financing, including the proposed working capital line. If these additional sources of liquidity are unavailable to us, we may face very substantial liquidity pressures that we may not be able to sustain. While we are working on securing a working capital line, the state of the credit markets coupled with our history of losses may make it difficult to secure a working capital line, or any additional debt, on acceptable terms.

Long Term Debt

On November 14, 2008 we entered into the Debenture and Warrant Purchase Agreement (the “Agreement”) with Global Strategic Partners (“GSP”). The Debenture bears interest at nine percent (9.0%) per annum payable quarterly in arrears. The Debenture is due and payable on the earlier to occur of (i) November 14, 2015 or (ii) the acceleration of the maturity of the Debenture upon the occurrence of an Event of Default. GSP may, at its option, on any of the maturity date, the date that any interest payment is due, or the date on which a change of control occurs, convert all or any portion of the outstanding principal amount of the Debenture into shares of our common stock at a \$1.25 per share. In May 2009, GSP agreed to defer the interest payments due and payable under the Debenture on each of July 1, 2009, October 1, 2009 and January 4, 2010. The deferred payments will accrue interest at nine percent per annum and will be payable in eight equal quarterly installments on the first day of such quarter beginning on April 1, 2010. The Debenture is secured by all assets, property rights and interests of the Company, except for certain bank guarantees as defined in the Debenture.

On November 14, 2008 we also issued the Warrant to GSP, giving it the right to purchase up to fifty percent (50%) of our outstanding common stock, on a fully diluted basis, less the number of shares of common stock into which the Debenture is convertible. The Warrant can be exercised by GSP in two (2) tranches at any time prior to the earlier to occur of: (i) the seventh anniversary of the date of the Agreement, (ii) the third anniversary of the date of the Agreement in the event the we retire the Debenture on or before such date (the “Third Anniversary”) or (iii) such time as GSP has acquired fifty percent (50%) of the total number of shares of our common stock then outstanding on a fully diluted basis.

The aggregate number of shares of common stock (the “Tranche One Maximum”) that may be purchased pursuant to one or more tranche one exercises of the Warrant (the “Tranche One Exercises”) is forty percent (40%) of the Common Stock then outstanding on a fully diluted basis, minus that number of shares of Common Stock that GSP is or was entitled to acquire (or has theretofore acquired) upon exercise of the conversion feature of the Debenture. Notwithstanding the preceding sentence, if all or any portion of the principal amount of the Debenture has been prepaid by us prior to the Third Anniversary, then the Tranche One Maximum will also include a number of shares of common stock equal to the quotient of: (i) the amount of the Debenture’s principal amount that was so repaid by the Third Anniversary, divided by (ii) \$1.25 (the “Prepayment Shares”).

The Warrant’s second tranche is exercisable in whole or in part at \$3.00 per share. The aggregate number of shares of common stock that may be purchased pursuant to one or more tranche two exercises of the Warrant (the “Tranche Two Exercises”) is equal to (a) fifty percent (50%) of the common stock then outstanding on a fully diluted basis, minus (b) that number of shares of common stock that GSP is or was entitled to acquire (or has theretofore acquired) upon (i) exercise of the conversion feature of the Debenture, and (ii) the Tranche One Exercise, plus (c) the Prepayment Shares. A Tranche Two Exercise may only be made after the full number of shares exercisable pursuant to Tranche One Exercises have been purchased.

In connection with this financing, we repaid the entire amount due under the Amended and Restated Loan and Security Agreement, dated as of October 20, 2008, with Silicon Valley Bank and the Amended and Restated Export-Import Bank Loan and Security Agreement, dated as of October 20, 2008, with Silicon Valley Bank. The Payoff amount was approximately \$1,050,000.

As of June 30, 2009, we did not have a credit line or bank facility in place.

Operating, Investing and Financing Activities

As of June 30, 2009, we had approximately \$402,000 in cash and cash equivalents, compared to \$1,895,000 as of December 31, 2008. Our operating activities used cash \$1,425,000 for the six months ended June 30, 2009. The decrease in cash flows was primarily due to working capital fluctuations particularly an increase in accounts

receivable and net loss for the period driven by one-time charges consisting primarily of terminated employee salaries and severance.

The Company used cash of \$72,000 and \$603,000 for investing activities for the six months ended June 30, 2009 and 2008, respectively, for the purchase of capital equipment and renovations to our Company's facilities.

The Company generated cash of \$4,000 and \$697,000 from financing activities for the three months ended June 30, 2009 and 2008, respectively.

Contractual Obligations

Our contractual obligations as of June 30, 2009 are as follows:

| (in thousands) | | Payment due by period | | | |
|--------------------------|----------|------------------------|----------------|----------------|-------------------------|
| Contractual Obligation | Total | Less than 1 year | 1 - 3 years | 3 - 5 years | More than 5 years |
| Convertible debt (1) | \$ 7,844 | \$ 170 | \$ 1,222 | \$ 900 | \$ 5,552 |
| Operating leases | 1,112 | 474 | 626 | 12 | - |
| Purchase obligations (2) | 44 | 44 | - | - | - |
| | \$ 9,000 | \$ 688 | \$ 1,848 | \$ 912 | \$ 5,552 |

(1) Includes principal and interest payments, principal is due only at maturity unless called upon following an event of default under the convertible debenture agreement. (See discussion above on interest in Long Term Debt.)

(2) Purchase obligations consist of commitments for production materials and supplies.

Off-Balance Sheet Arrangements

We are not a party to any off-balance sheet arrangements.

Item 3. Quantitative and Qualitative Disclosures About Market Risk.

Our financial instruments are generally not subject to changes in market value as a result of changes in interest rates due to the short maturities of the instruments. Our fixed rate debt is not exposed to cash flow or interest rate changes but is exposed to fair market value changes in the event of refinancing this fixed rate debt. We do not have significant exposure to fluctuations in foreign exchange rates.

Item 4. Controls and Procedures

The certificates of the Company's principal executive officer and principal financial officer attached as Exhibits 31.1 and 31.2 to this Quarterly Report on Form 10-Q include, in paragraph 4 of such certifications, information concerning the Company's disclosure controls and procedures, and internal control over financial reporting. Such certifications should be read in conjunction with the information contained in this Item 4 for a more complete understanding of the matters covered by such certifications.

Disclosure Controls and Procedures

The Company's management, with the participation of the Company's principal executive officer and principal financial officer, evaluated the effectiveness of the Company's disclosure controls and procedures as of June 30, 2009. The term "disclosure controls and procedures", as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), means controls and other procedures of a company that are designed to ensure that information required to be disclosed by the Company in the reports that it files or submits under the Exchange Act is recorded, processed, summarized, and reported, within the time periods specified in the SEC's rules and forms. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by a company in the reports that it files or submits under the Exchange Act is accumulated and communicated to the company's management, including its principal executive officer and principal financial officer, as appropriate, to allow timely decisions to be made regarding required disclosure. It should be noted that any system of controls and procedures, however well designed and operated, can provide only reasonable, and not absolute, assurance that the objectives of the system are met and that management necessarily applies its judgment in evaluating the cost-benefit relationship of possible controls and procedures. Based on the evaluation of the Company's disclosure controls and procedures as of June 30, 2009, the Company's principal executive officer and principal financial officer concluded that, as of such date, the Company's disclosure controls and procedures were effective at the reasonable assurance level.

Changes in Internal Control Over Financial Reporting

There were no changes to the Company's internal control over financial reporting during the quarter ended June 30, 2009 that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting.

PART II. OTHER INFORMATION

Item 1. Legal Proceedings

The Company is not a party to any material legal proceedings.

Item 1A. Risk Factors

You should carefully consider the risks and uncertainties described below and the other information in this filing before deciding to purchase our common stock. If any of these risks or uncertainties occurs, our business, financial condition or operating results could be materially harmed. In that case the trading price of our common stock could decline and you could lose all or part of your investment. The risks and uncertainties described below are not the only ones we may face. We believe that this filing contains forward-looking statements as that term is defined in the Private Securities Litigation Reform Act of 1995. Forward-looking statements may include the words “may,” “estimate,” “intend,” “continue,” “believe,” “expect,” “anticipate,” and other similar words. Such statements are based on management’s current expectations and are subject to facts that could cause results to differ materially from the forward-looking statements. For further information you are encouraged to review our filings with the Securities and Exchange Commission, including our Annual Report on Form 10K for the period ended December 31, 2008. We assume no continuing obligation to update the information contained in this filing.

We have experienced operating losses from continuing operations in three of our last five fiscal years, including the fiscal year ended December 31, 2008, and we may not be able to achieve consistent profitability in the future.

For three of the past five fiscal years, as well as the three and six months ended June 30, 2009, we have experienced losses from continuing operations. For the six months ended June 30, 2009 and the year ended December 31, 2008 we had a net loss of \$867,000 and \$4,011,000, respectively. It is anticipated that, even with the expenses changes implemented in first quarter in 2009, the Company will have a net loss in the current fiscal year.

The Company must become cash-flow positive.

We believe that our existing cash, expected revenue and customer deposits should be sufficient to meet our working capital requirements for the next twelve months. However, given fluctuations in the timing and size of customer orders and deposits, we are working on securing a working capital line to improve cash management and provide the business greater short-term liquidity. Additionally, in the first quarter of 2009 we initiated an aggressive cost reduction program that includes headcount reductions as well as the elimination of all non-essential discretionary spending such as travel, consulting and marketing programs. If we sustain a revenue shortfall that we cannot compensate for through additional cost cuts, or increasing deposits, or our potential credit facility is not obtained or obtained and subsequently withdrawn, it is possible that we could face unsustainable liquidity pressures. This concern is accentuated by the fact that in the current credit markets, given our history of losses, it is possible that we may not be able to obtain a potential credit facility or alternative or additional financing. Under these circumstances, it is possible that we could default under our debenture or other financing agreements, which default could force us to seek protection under the bankruptcy laws and cause our investors to sustain a loss of their investment in our shares.

The current credit and financial market conditions may exacerbate certain risks affecting our business.

Increased concerns about credit markets, consumer confidence, economic conditions, volatile corporate profits and reduced capital spending could negatively impact demand for our products. In the future, we may experience reduced demand for our products because of the uncertainties in the general economic environment in which our customers and we operate. The current tightening of credit in financial markets may adversely affect the ability of our customers and suppliers to obtain financing, which could result in a decrease in, or deferrals or cancellations of, the sale of our products. If global economic and market conditions, or economic conditions in the United States, remain uncertain or persist, spread, or deteriorate further, we may experience a material adverse effect on our business, operating results and financial condition. Unstable economic, political and social conditions make it difficult for our customers, our suppliers and us to accurately forecast and plan future business activities. If such conditions persist, our business, financial condition and results of operations could suffer. We cannot project the extent of the impact of the economic environment specific to our industry.

The failure of any banking institution in which we deposit our funds or the failure of such banking institution to provide services in the current economic environment could have a material adverse effect on our results of operations, financial condition or access to borrowings.

The capital and credit markets have been experiencing extreme volatility and disruption. In some cases, the markets have exerted downward pressure on stock prices and credit capacity for certain issuers, as well as pressured the solvency of some financial institutions. Some of these financial institutions, including banks, have had difficulty performing regular services and in some cases have failed or otherwise been largely taken over by governments. If we are unable to access some or all of our cash on deposit, either temporarily or permanently, it could have a negative impact on our operations, including our reported net income, or our financial position, or both.

The occurrence of an event of default under our financing could result in substantial losses to our stockholders.

The \$5,000,000 in financing that we received in November, 2008 (the “Financing”) would become immediately due and payable upon the occurrence of an Event of Default under the Financing documents, including provisions relating to timely payment, accuracy of representations, solvency, and the occurrence of a change of control. See also the Form 8-K filed by the Company with the Securities and Exchange Commission on November 20, 2008 (the “Financing 8-K”) for a full discussion of the events that constitute an Event of Default. If an Event of Default occurs, there can be no assurance that we would be able to repay the Financing or be able to raise additional funds to make such payment. Failure to repay the Financing could force us to reorganize our debts, possibly in bankruptcy, in which event our common stock could likely become worthless.

We face intense competition in many of our markets.

Our Microfluidizer product line of high-shear fluid processors has direct competition in its major markets, including its most important markets in the pharmaceutical, biotechnology and coatings/chemical industries. The severity of the competition that we confront requires that we continuously invest in research and development in order to keep our product line competitive. Despite such expenditures, however, there can be no assurance that we will be able to meet the enhancement challenges posed by our competitors, or that we will be able to create or exploit the kinds of innovations, such as our Microfluidics Reaction Technology, needed to drive future sales.

In addition, we face, and will continue to face, intense competition from other companies who manufacture and sell fluid processing systems used in particle size reduction, mixing, milling, dispersing, homogenizing, cell disruption and liposomal encapsulation applications. We expect competition to intensify in the fluid processing systems field as technical advances are made and become more widely known, and such increased competition may have a material adverse effect upon our business.

Our future success will depend in large part on our ability to maintain a technologically superior product line. Rapid technological development by us or others may result in our products or technologies becoming obsolete before we recover the expenses we incur in connection with their development. Products offered by us could be made obsolete by less expensive or more effective technologies. There can be no assurance that we will be able to make the enhancements to our technology necessary to compete successfully with newly emerging technologies.

We may experience uncertain economic trends that adversely impact our business.

We may experience in the future reduced demand for our products as a result of the uncertainty in the general economic environment in which our customers and we operate. We cannot project the extent of the impact of the economic environment specific to our industry. If economic conditions worsen or if an economic slowdown occurs, we may experience a material adverse effect on our business, operating results and financial condition.

We rely on suppliers, vendors and subcontractors.

We do not manufacture most of the components contained in our Microfluidizer materials processor equipment, but rather subcontract the manufacture of most components. Based on quality, price, and performance, we have selected certain suppliers, vendors, and subcontractors that provide parts, subassemblies, machining and finishing of components that are assembled by our production staff. It is possible that, as a result of the current economic slowdown or other reasons, one or more of our suppliers, vendors or subcontractors could go out of business, or not ship on open account, or otherwise be unable to supply our needs. Although we have identified alternate sources for parts, components, machining and finishing integral to the manufacture of our products, there can be no assurance that a transition to an alternative source would not entail quality assurance or quality control difficulties, on-time delivery problems, or other transition problems, any or all of which could have an impact on our production of equipment and could have a material adverse effect on our business, financial condition, or results of operations.

Many of our current and potential customers are from the pharmaceutical and biotechnology industries and are subject to risks faced by those industries.

We derive a substantial portion of our revenues from pharmaceutical and biotechnology companies. We expect that pharmaceutical and biotechnology companies will continue to be one of our major sources of revenues for the foreseeable future. As a result, we are subject to risks and uncertainties that affect the pharmaceutical and biotechnology industries, such as pricing pressures as third-party payers continue challenging the pricing of medical products and services, government regulation, ongoing consolidation and uncertainty of technological change, and to reductions and delays in research and development expenditures by companies in these industries.

In particular, the biotechnology industry is dependent on raising capital to fund operations. If biotechnology companies are unable to obtain the financing necessary to purchase our products, our business and results of operations could be materially adversely affected. As it relates to both the biotechnology and pharmaceutical industries, many companies have significant patents that have expired or are about to expire, which could result in reduced revenues for those companies. If pharmaceutical companies suffer reduced revenues as a result of these patent expirations, they may be unable to purchase our products, and our business and results of operations could be materially adversely affected.

In addition, we are dependent, both directly and indirectly, upon general health care spending patterns, particularly in the research and development budgets of the pharmaceutical and biotechnology industries, as well as upon the financial condition and purchasing patterns of various governments and government agencies. Many of our customers, including universities, government research laboratories, private foundations and other institutions, obtain funding for the purchase of products from grants by governments or government agencies. There exists the risk of potential decrease in the level of governmental spending allocated to scientific and medical research, which could substantially reduce or even eliminate these grants. If government funding necessary to purchase our products were

to decrease, our business and results of operations could be materially adversely affected.

Lastly, because our Financing was provided by an affiliate of a pharmaceutical company that competes with other pharmaceutical companies, it is possible that the other companies might decide against doing business with us in the future for competitive reasons. If a significant number of pharmaceutical companies were to reduce their purchases of our products for this or any other reason, our business and results of operations could be materially adversely affected.

We have only one manufacturing facility.

We have a single manufacturing facility located in Newton, Massachusetts. Our success depends on the efficient and uninterrupted operation of that facility. Whether as a result of a fire, natural disaster, or other cause, any disruption to our manufacturing operations would significantly impair our ability to operate our business on a day-to-day basis. Although we maintain business interruption insurance, our business would be injured by any extended interruption of the operations of our manufacturing facility. Further, although we carry property and business interruption insurance, our coverage may not be adequate to compensate us for all losses that may occur. This insurance coverage may not continue to be available to us. Finally, if we were to seek to replicate our manufacturing operations at another location, we would face a number of technical as well as financial challenges, which we may not be able to address successfully.

We rely on our trade secrets to protect our technology.

Our Microfluidizer processor equipment method patent expired on March 13, 2007 and our device patent expired on August 6, 2002. In addition, we have neither sought patent protection for our Microfluidizer processor or our interaction chamber nor trademark protection of our Microfluidizer trade name in any country other than the United States. As such, our proprietary rights are not subject to the protection of patent or trademark laws of foreign countries where our equipment is sold. Although we have made many alterations, improvements and advances to our equipment over the years and continue to make such advancements with such modifications and innovations having been and being treated by us as trade secrets, the lack of our patent protections exposes us to potential competition that could likely have a material adverse effect on us.

To protect our proprietary rights, we rely on a combination of trademark laws, trade secrets, confidentiality agreements, contractual provisions and technical means. In the event of a breach of these protections, there can be no assurance that these measures will prove to have been adequate to protect our interests, or that we will have sufficient resources to prosecute or prevail in an action against a third party.

We may be subjected to increased government regulation which could affect our ability to sell our products outside of the United States.

Although United States governmental restrictions on technology transfer, import, export and customs regulations and other present local, state or federal regulation, have not had a significant effect on us historically, any future legislation or administrative action restricting our ability to sell our products to certain countries outside the United States could significantly affect our ability to make certain foreign sales. The extent of adverse governmental regulation, which might result from future legislation or administrative action, cannot be accurately predicted. In particular, the USA Patriot Act and other governmental regulations may impose export restrictions on sale of equipment or transfer of technology to certain countries or groups. There can be no assurance that sales of our equipment will not be impacted by any such legislation or designation. Depending upon which countries and sales may be designated for trade restriction, such actions could have a material adverse effect on our business, financial condition, or results of operations. Also, certain agreements that may be entered into by us involving exclusive license rights may also be subject to national or supranational antitrust regulatory control, the effect of which cannot be predicted.

We rely on our top management and technical personnel.

Our continued operation, innovation and growth are to some significant degree reliant on the continued services of our executive officers and leading technical personnel. There can be no assurance that we will be able to retain such management and technical personnel if employment is offered by other companies better able to pay higher compensation, provide more and better benefits, or willing to offer longer term job security by entering into employment contracts with our employees. Further, there can be no assurance that key executive officers and leading technical personnel will not leave our employment, die or become disabled. Though we believe that we can identify and recruit replacement key management and technical personnel, there can be no assurance as to such availability, the length of time required to obtain such replacement management and technical personnel, the salary level that may have to be paid to obtain their respective services, or the impact on operations that may be experienced through the interim absence of such key management and technical personnel. The loss of our top management or leading technical personnel could, therefore, have a material adverse effect on our business, financial condition, or results of operations.

Our stock is listed on the OTC Bulletin Board and our stockholders may have limited liquidity.

Our common stock is quoted on the OTC Bulletin Board, which provides significantly less liquidity than a securities exchange (such as the NYSE Amex, the New York Stock Exchanges or The NASDAQ Stock Market). In general,

over the past two years, fewer than 20,000 shares of our common stock have traded on a daily basis.

Our quarterly revenues and stock performance are variable.

The timing of orders including completion of our factory acceptance testing can impact the actual shipment date, which will significantly affect quarterly revenues and net income results for particular quarters which may cause increased volatility in both our revenues and stock price.

We allow our customers to lease some of our products and those leases may not turn into sales.

We sometimes rent our products to our customers prior to or instead of selling a product to a customer. Our products are expensive, and customers frequently want to test out a product's capabilities prior to purchase. We have had reasonable success in converting rentals into subsequent sales of the same or a newer product; however, there is no guarantee that we will continue to be able to convert any of our leases into sales.

We may be subject to product liability claims from our customers or by persons harmed by our customers' products.

We maintain what we deem to be reasonable levels of product liability coverage through insurance policies with a reasonably small deductible. Nonetheless, inasmuch as we sell our equipment to a number of customers who make pharmaceutical preparations and consumer cosmetics, there can be no assurance that if a consumer of end products is injured or dies from such product that a suit by an injured party (or a class of similar situated plaintiffs) will not include us as well as the maker of the drug or cosmetic. Although we may have no control over the manufacture of end-products made on our equipment, we may not be able to bar a plaintiff's claims against all parties whose products and equipment were involved in the manufacturing process under a variety of legal theories of liability. We may be required to present a vigorous and costly defense if we cannot be dismissed from such an action. The cost of such legal defense may significantly impact our cash flow.

Our international business operations expose us to a variety of risks.

For the three months ended June 30, 2009 and 2008, shipments outside of North America accounted for approximately 55.5% and 67.3%, respectively, of our net revenues in those periods, of which approximately 31.1% and 58.0% of our net revenues resulted from sales to Europe in the three months ended June 30, 2009 and 2008, respectively. We expect that shipments outside of North America will continue to account for a significant portion of our total net product.

We attempt to reduce some of our risk related to sales and shipments outside of the United States by requiring that our contracts generally be paid in United States Dollars. Nevertheless, a downturn in the economies of Asia, including Japan and Korea or Europe might reduce investment in new technology or products while a weakening of foreign currency against the United States Dollar would make our products more expensive, each of which could have a substantial impact on our operating results.

In addition, a significant portion of our total net revenue is subject to the risks associated with shipping to foreign markets in general, including unexpected changes in legal and regulatory requirements; seasonality of our revenue in Europe; changes in tariffs; political and economic instability; risk of terrorism; difficulties in managing distributors and representatives; difficulties in protecting our intellectual property overseas; and natural disasters, any of which could have a negative impact on our operating results.

We may experience difficulties in the future in complying with Sarbanes-Oxley Section 404 ("Section 404"); and continued implementation and maintenance of internal controls necessary for continued compliance with Section 404 may result in our incurring of additional costs.

We are required to evaluate our internal controls under Section 404 of the Sarbanes-Oxley Act of 2002 and for the fiscal year ended December 31, 2008, we were only required to furnish a report by our management on our internal controls over financial reporting. Such report contained, among other matters, an assessment of the effectiveness of our internal control over financial reporting as of the end of our fiscal year, including a statement as to whether or not our internal control over financial reporting is effective. While we have completed our self-assessment as to the effectiveness of internal control over financial reporting for the year ended December 31, 2008, which did not identify material weaknesses in our internal control systems, there can be no assurance that future material weaknesses in our internal control systems will not be identified as a result of changing financial or operating conditions. For our fiscal year ending December 31, 2009, we will be required to subject our internal controls to audit by our independent registered public accounting firm. As such, there can be no assurance that an audit of our internal controls will not result in the identification of a material weakness. If we fail to maintain proper and effective internal controls in future periods, it could adversely affect our operating results, financial condition and our ability to run our business effectively and could cause investors to lose confidence in our financial reporting. In the event that it is determined that our internal control over financial reporting is not effective, as defined under Section 404, investor confidence in us may be adversely affected and could cause a decline in the market price of our stock.

Future changes in financial accounting standards may adversely affect our reported results of operations.

A change in accounting standards can have a significant effect on our reported financial results. New accounting pronouncements and varying interpretations of accounting pronouncements have occurred and may occur in the future. These new accounting pronouncements may adversely affect our reported financial results.

If our accounting estimates are not correct, our financial results could be adversely affected.

Management judgment and estimates are necessarily required in the application of our Critical Accounting Policies. We discuss these estimates in the subsection entitled Critical Accounting Policies included in the Management's Discussion and Analysis of Financial Condition and Results of Operations section of our Annual and Quarterly Reports with the Securities and Exchange Commission. If our estimates are incorrect, our future financial operating results and financial condition could be adversely affected.

Item 2. Unregistered Sales of Equity Securities and Use of Proceeds

None.

Item 3. Defaults Upon Senior Securities

None.

Item 4. Submission of Matters to a Vote of Security Holders

On June 4, 2009, the Company held the 2009 Annual Meeting of Stockholders at which stockholders of record as of April 24, 2009 were entitled to vote on the following matters:

- (1) To elect five (5) directors to hold office until their successors shall be elected and shall have qualified;
- (2) To amend the Company's Certificate of Incorporation to increase the number of authorized shares to 30,000,000 from 20,000,000; and
- (3) To ratify the selection of UHY LLP as the Company's independent accountants for the fiscal year ending December 31, 2009.

As of April 24, 2009, the record date, there were 10,371,782 shares eligible to vote. At the annual meeting, Microfluidics shareholders elected the directors and approved the proposals as set forth below by the votes indicated:

Proposal No. 1 - Election of Directors:

| | For | Withheld |
|--------------------|-----------|-----------|
| Michael C. Ferrara | 8,783,080 | 295,027 |
| James N. Little | 4,908,071 | 4,170,036 |
| Leo Pierre Roy | 5,227,165 | 3,850,942 |
| George Uveges | 5,338,934 | 3,739,173 |
| Eric G. Walters | 7,133,689 | 1,944,418 |

Each director nominee above was elected by the affirmative vote of a majority of the shares present, in person or by proxy, and entitled to vote at the meeting.

Proposal No. 2 – Approval of an Amendment to the Company's Certificate of Incorporation:

| | For | Against | Abstain |
|--|-----------|-----------|---------|
| Amend the Company's Certificate of Incorporation to increase the number of authorized shares to 30,000,000 from 20,000,000 | 6,492,047 | 2,512,352 | 73,708 |

The proposal to amend the Company's Certificate of Incorporation was approved by the affirmative vote of a majority of the outstanding shares of common stock entitled to vote at the annual meeting.

Proposal No. 3 - Ratification of Independent Accountants:

| | For | Against | Abstain |
|--|-----------|-----------|---------|
| | 7,241,312 | 1,549,546 | 287,249 |

UHY LLP to serve as independent accountants for the fiscal year ending December 31, 2009

The ratification of the independent registered public accounting firm was approved by the affirmative vote of a majority of the shares present, in person or by proxy, and entitled to vote at the meeting

Item 5. Other Information

On May 4, 2009, Microfluidics International Corporation, a Delaware corporation (the “Company”), and Global Strategic Partners, LLC (the “Investor”) entered into Amendment No. 2 (the “Amendment”) to that certain Debenture and Warrant Purchase Agreement dated as of November 14, 2008 (the “Debenture”). Pursuant to the Amendment, the Company and Investor agreed to defer the interest payments due and payable on each of July 1, 2009, October 1, 2009 and January 4, 2010 (the “Deferred Payments”). The Deferred Payments will accrue interest at nine percent per annum and will be payable in eight equal quarterly installments on the first day of such quarter beginning on April 1, 2010.

Item 6. Exhibits

Exhibits

- 3.1 Certificate of Amendment to the Restated Certificate of Incorporation of Microfluidics International Corporation. (incorporated by reference from the registrants Current Report on Form 8-K (File No. 0-11625) as filed with the Commission on June 10, 2009).
- 10.1 Form of Notice of Grant of Stock Option and Employee Stock Option Agreement for Microfluidics International Corporation 2006 Stock Plan.(incorporated by reference from the registrants Current Report on Form 8-K (File No. 0-11625) as filed with the Commission on June 10, 2009). *
- 10.2 Amendment No. 2 (the “Amendment”) to that certain Debenture and Warrant Purchase Agreement dated as of November 14, 2008. (Filed herewith)
- 31.1 Certification of Principal Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
- 31.2 Certification of Principal Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
- 32.1 Certification of Principal Executive Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
- 32.2 Certification of Principal Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.

*Represents management contract or compensatory plan or arrangement.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

MICROFLUIDICS
INTERNATIONAL
CORPORATION

By: /s/ Michael C
Ferrara
Michael C Ferrara
President and Chief Executive Officer
(Principal Executive Officer)

By: /s/ Peter F. Byczko
Peter F. Byczko
Vice President of Finance & Chief
Accounting Officer
(Principal Financial and Accounting Officer)

Dated: August 14, 2009

