

ORGANOVO HOLDINGS, INC.
Form 10-Q
February 06, 2014

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, DC 20549

Form 10-Q

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

For the quarterly period ended December 31, 2013

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 001-35996

Organovo Holdings, Inc.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

27-1488943
(I.R.S. Employer
Identification No.)

6275 Nancy Ridge Drive, Suite 110,

San Diego, CA 92121
(Address of principal executive offices and zip code) **(858) 224-1000**
(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 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 (§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. (Check one):

Large accelerated filer

Accelerated filer

Non-accelerated filer (Do not check if a smaller reporting company)

Smaller reporting company

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

As of February 1, 2014, a total of 77,816,787 shares of the Registrant's Common Stock, \$0.001 par value, were outstanding.

Organovo Holdings, Inc.

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Organovo Holdings, Inc.**(A development stage company)****Condensed Consolidated Balance Sheets****(in thousands except per share data)**

| | December 31, 2013 | March 31, 2013 |
|---|--------------------------|-----------------------|
| | (Unaudited) | (Audited) |
| Assets | | |
| Current Assets | | |
| Cash and cash equivalents | \$ 49,818 | \$ 15,628 |
| Grant receivable | 7 | 101 |
| Inventory | 82 | 88 |
| Prepaid expenses and other current assets | 622 | 327 |
| Total current assets | 50,529 | 16,144 |
| Fixed assets Net | 915 | 1,045 |
| Restricted cash | 79 | 88 |
| Other assets Net | 92 | 98 |
| Total assets | \$ 51,615 | \$ 17,375 |
| Liabilities and Stockholders Equity | | |
| Current Liabilities | | |
| Accounts payable | \$ 311 | \$ 641 |
| Accrued expenses | 1,559 | 780 |
| Deferred revenue | 15 | 53 |
| Capital lease obligation | 10 | 10 |
| Warrant liabilities | 1,006 | 6,898 |
| Total current liabilities | 2,901 | 8,382 |
| Deferred revenue, net of current portion | 5 | 9 |
| Capital lease obligation, net of current portion | 8 | 15 |
| Total liabilities | \$ 2,914 | \$ 8,406 |
| Commitments and Contingencies (Note 5) | | |
| Stockholders Equity | | |
| Common stock, \$0.001 par value; 150,000,000 shares authorized, 77,424,956 and 64,686,919 shares issued and outstanding at December 31, 2013 and March 31, 2013, respectively | 77 | 65 |
| Additional paid-in capital | 134,355 | 75,269 |
| Deficit accumulated during the development stage | (85,731) | (66,365) |
| Total stockholders equity | 48,701 | 8,969 |
| Total Liabilities and Stockholders Equity | \$ 51,615 | \$ 17,375 |

The accompanying notes are an integral part of these condensed consolidated financial statements.

Organovo Holdings, Inc.

(A development stage company)

Unaudited Condensed Consolidated Statements of Operations

(in thousands except per share data)

| | Three Months Ended December 31, 2013 | | Three Months Ended December 31, 2012 | | Nine Months Ended December 31, Through December 31, 2013 | | Period from April 19, 2007 (Inception) |
|--|--------------------------------------|------------|--------------------------------------|------------|--|------|--|
| | 2013 | 2012 | 2013 | 2012 | 2013 | 2012 | December 31, 2013 |
| Revenues | | | | | | | |
| Product | \$ | \$ | \$ | \$ | \$ | \$ | 224 |
| Collaborations | 97 | 282 | 214 | 915 | 2,110 | | 2,110 |
| Grants | 38 | 67 | 50 | 162 | 993 | | 993 |
| Total Revenues | 135 | 349 | 264 | 1,077 | 3,327 | | 3,327 |
| Cost of product revenue | | | | | | | 134 |
| Selling, general, and administrative expenses | 2,402 | 2,141 | 8,807 | 6,178 | 21,346 | | 21,346 |
| Research and development expenses | 2,359 | 1,130 | 5,420 | 2,889 | 13,502 | | 13,502 |
| Loss from Operations | (4,626) | (2,922) | (13,963) | (7,990) | (31,655) | | (31,655) |
| Other Income (Expense) | | | | | | | |
| Fair value of warrant liabilities in excess of proceeds received | | | | | | | (19,019) |
| Change in fair value of warrant liabilities | (586) | (4,740) | (5,397) | 3,575 | (27,369) | | (27,369) |
| Financing transaction costs in excess of proceeds received | | | | | | | (2,130) |
| Loss on inducement to exercise warrants | | (1,904) | | (1,904) | (1,904) | | (1,904) |
| Gain (loss) on disposal of fixed assets | | | (4) | (158) | (162) | | (162) |
| Interest expense | | | (13) | | (3,484) | | (3,484) |
| Interest income | 4 | 2 | 11 | 5 | 22 | | 22 |
| Other income (expense) | | | | | | | (30) |
| Total Other Income (Expense) | (582) | (6,642) | (5,403) | 1,518 | (54,076) | | (54,076) |
| Net loss | \$ (5,208) | \$ (9,564) | \$ (19,366) | \$ (6,472) | \$ (85,731) | | \$ (85,731) |

| | | | | | | | | |
|---|----|------------|----|------------|----|------------|----|------------|
| Net loss per common share basic and diluted | \$ | (0.07) | \$ | (0.20) | \$ | (0.27) | \$ | (0.14) |
| Weighted average shares used in computing net loss per common share basic and diluted | | 77,235,976 | | 48,428,186 | | 71,606,724 | | 45,224,906 |

The accompanying notes are an integral part of these condensed consolidated financial statements.

Organovo Holdings, Inc.

(A development stage company)

Unaudited Condensed Consolidated Statements of Stockholders Equity (Deficit) (in thousands)

Period from April 19, 2007 (Inception) through December 31, 2013

| | Common Stock Shares | Common Stock Amount | Additional Paid-in Capital | Deficit Accumulated During the Development Stage | Total |
|--|------------------------|------------------------|----------------------------------|--|-------------------|
| Balance at inception (April 19, 2007) | | \$ | \$ | \$ | \$ |
| Issuance of common stock | | | | | |
| Stock-based compensation expense | | | | | |
| Net loss | | | | | |
| Balance at December 31, 2007 | | \$ | \$ | \$ | \$ |
| Issuance of common stock to founders | 1,730 | 2 | (2) | | |
| Issuance of restricted common stock | 12,628 | 12 | (12) | | |
| Stock-based compensation expense | | | 2 | | 2 |
| Net loss | | | | (98) | (98) |
| Balance at December 31, 2008 | 14,358 | \$ 14 | \$ (12) | \$ (98) | \$ (96) |
| Issuance of restricted common stock | 130 | | | | |
| Stock-based compensation expense | | | 2 | | 2 |
| Net loss | | | | (872) | (872) |
| Balance at December 31, 2009 | 14,488 | \$ 14 | \$ (10) | \$ (970) | \$ (966) |
| Issuance of restricted common stock | 219 | | | | |
| Stock-based compensation expense | | | 4 | | 4 |
| Net loss | | | | (1,339) | (1,339) |
| Balance at December 31, 2010 | 14,707 | \$ 14 | \$ (6) | \$ (2,309) | \$ (2,301) |
| Issuance of common stock through conversion of notes payable | 7,677 | 8 | 3,482 | | 3,490 |
| Issuance of restricted common stock | 61 | | | | |
| Warrants issued with convertible notes and conversion of notes | | | 1,111 | | 1,111 |
| Beneficial conversion feature of convertible notes payable | | | 239 | | 239 |
| Stock-based compensation expense | | | 9 | | 9 |
| Net loss | | | | (4,383) | (4,383) |
| Balance at December 31, 2011 | 22,445 | \$ 22 | \$ 4,835 | \$ (6,692) | \$ (1,835) |
| Issuance of common stock in connection with the merger | 6,000 | 6 | (6) | | |

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| | | | | |
|---|---------------|--------------|-------------------|-------------------------------|
| Issuance of common stock through private placements in connection with the merger | 13,723 | 14 | 13,709 | 13,723 |
| Costs associated with the merger | | | (13,723) | (13,723) |
| Issuance of common stock through conversion of notes payable and accrued interest in connection with the merger | 1,525 | 2 | 1,524 | 1,526 |
| Issuance of warrants to consultants | | | 890 | 890 |
| Issuance of common stock from warrant exercises, net | 13,424 | 14 | 10,977 | 10,991 |
| Warrant liability removed due to exercise of warrants | | | 23,321 | 23,321 |
| Stock option exercises | 224 | | 18 | 18 |
| Issuance of restricted common stock | 1,380 | 1 | (1) | |
| Restricted stock forfeitures | (186) | | | |
| Stock-based compensation expense | | | 1,435 | 1,435 |
| Loss on inducement to exercise warrants | | | 1,904 | 1,904 |
| Net loss | | | (43,553) | (43,553) |
| Balance at December 31, 2012 | 58,535 | \$ 59 | \$ 44,883 | \$ (50,245) \$ (5,303) |
| Issuance of common stock from warrant exercises, net | 6,131 | 6 | 3,718 | 3,724 |
| Issuance of restricted common stock | 55 | | | |
| Restricted stock forfeitures | (34) | | | |
| Stock-based compensation expense | | | 848 | 848 |
| Expense related to modification of warrants | | | 65 | 65 |
| Warrant liability removed due to exercises of warrants | | | 23,869 | 23,869 |
| Warrant liability reclassified to equity | | | 1,886 | 1,886 |
| Net loss | | | (16,120) | (16,120) |
| Balance at March 31, 2013 | 64,687 | \$ 65 | \$ 75,269 | \$ (66,365) \$ 8,969 |
| Issuance of warrants to consultant | | | 452 | 452 |
| Issuance of common stock from warrant exercises, net | 2,404 | 2 | 933 | 935 |
| Warrant liability removed due to exercises of warrants | | | 10,522 | 10,522 |
| Warrant liability reclassified to equity | | | 767 | 767 |
| Stock option exercises | 84 | | 195 | 195 |
| Issuance of restricted common stock | 60 | | | |
| Restricted stock forfeitures/adjustment | (160) | | | |
| Stock-based compensation expense | | | 2,840 | 2,840 |
| Expense related to modification of warrants | | | 12 | 12 |
| Issuance of common stock from public offering | 10,350 | 10 | 43,365 | 43,375 |
| Net loss | | | (19,366) | (19,366) |
| Balance at December 31, 2013 | 77,425 | \$ 77 | \$ 134,355 | \$ (85,731) \$ 48,701 |

The accompanying notes are an integral part of these condensed consolidated financial statements.

Organovo Holdings, Inc.

(A development stage company)

Unaudited Condensed Consolidated Statements of Cash Flows (in thousands)

| | Nine Months Ended December 31, 2013 | Nine Months Ended December 31, 2012 | Period from April 19, 2007 (Inception) Through December 31, 2013 |
|---|---|---|--|
| Cash Flows From Operating Activities | | | |
| Net loss | \$ (19,366) | \$ (6,472) | \$ (85,731) |
| Adjustments to reconcile net loss to net cash used in operating activities: | | | |
| Amortization of deferred financing costs | | | 438 |
| Loss on disposal of fixed assets | 4 | 158 | 162 |
| Depreciation and amortization | 288 | 178 | 719 |
| Amortization of debt discount | | | 2,084 |
| Interest accrued on convertible notes payable | | | 495 |
| Fair value of warrant liabilities in excess of proceeds | | | 19,019 |
| Change in fair value of warrant liabilities | 5,397 | (3,575) | 27,369 |
| Loss on inducement to exercise warrants | | 1,904 | 1,904 |
| Expense associated with warrant modification | 12 | | 77 |
| Stock-based compensation | 2,840 | 1,431 | 5,140 |
| Amortization of warrants issued for services | 182 | 556 | 999 |
| Warrants issued in connection with exchange agreement | | | 528 |
| Increase (decrease) in cash resulting from changes in: | | | |
| Grants receivable | 94 | (162) | (7) |
| Inventory | 6 | (414) | (745) |
| Prepaid expenses and other assets | (25) | (36) | (280) |
| Accounts payable | (330) | (16) | 311 |
| Accrued expenses | 779 | 580 | 1,559 |
| Deferred revenue | (42) | (269) | 20 |
| Net cash used in operating activities | (10,161) | (6,137) | (25,939) |
| Cash Flows From Investing Activities | | | |
| Deposits released from restriction (restricted cash deposits) | 9 | (50) | (79) |
| Purchases of fixed assets | (156) | (351) | (1,077) |
| Purchases of intangible assets | | | (114) |
| Net cash used in investing activities | (147) | (401) | (1,270) |

| Cash Flows From Financing Activities | | | |
|--|------------------|------------------|------------------|
| Proceeds from issuance of convertible notes payable | | | 4,630 |
| Proceeds from issuance of common stock and exercise of warrants, net | 44,310 | 10,991 | 72,748 |
| Proceeds from exercise of stock options | 195 | 18 | 213 |
| Proceeds from issuance of related party notes payable | | | 250 |
| Principal payments on capital lease obligation | (7) | (7) | (16) |
| Repayment of related party notes payable | | | (250) |
| Repayment of convertible notes and interest payable | | | (110) |
| Deferred financing costs | | | (438) |
| Net cash provided by financing activities | 44,498 | 11,002 | 77,027 |
| Net Increase in Cash and Cash Equivalents | 34,190 | 4,464 | 49,818 |
| Cash and Cash Equivalents at Beginning of Period | 15,628 | 10,353 | |
| Cash and Cash Equivalents at End of Period | \$ 49,818 | \$ 14,817 | \$ 49,818 |

Supplemental Disclosure of Cash Flow Information:

| | | | | |
|--------------|----|----|----|----|
| Interest | \$ | \$ | \$ | 10 |
| Income Taxes | \$ | \$ | \$ | 3 |

The accompanying notes are an integral part of these condensed consolidated financial statements.

Supplemental Disclosure of Noncash Investing and Financing Activities (\$ in thousands):

During the nine months ended December 31, 2013, the warrant liability was reduced by approximately \$10,522 as a result of warrant exercises and \$767 for warrants reclassified as equity instruments.

During the period from inception through December 31, 2013, the Company issued certain convertible notes payable that included warrants. The related beneficial conversion feature, valued at \$824 was classified as an equity instrument and recorded as a discount to the carrying value of the related debt. The warrants, valued at approximately \$1,260, were recorded as a warrant liability and recorded as a discount to the carrying value related to debt.

During the period from inception through December 31, 2013, the Company issued 9,202,215 shares of common stock to note holders for the conversion of Convertible Notes with a principal balance totaling \$4,530 and accrued interest totaling \$485.

The Company issued warrants, valued at approximately \$32,743, in connection with the Reverse Merger and the Private Placement during 2012. The warrants were recognized as a derivative liability.

During the period from inception through December 31, 2013, the Company purchased equipment valued at \$34 through a capital lease.

During the nine months ended December 31, 2013, the Company issued 75,000 warrants to purchase shares of its common stock for consulting services. The warrants were valued at approximately \$404. During the period from inception through December 31, 2013, the Company issued 725,000 warrants to purchase shares of its common stock for consulting services. The warrants were valued at approximately \$1,294.

During the period from inception through December 31, 2013, the warrant liability was reduced by \$57,712 as a result of warrant exercises and \$2,653 for warrants reclassified as equity instruments.

The accompanying notes are an integral part of these condensed consolidated financial statements.

Organovo Holdings, Inc.

(A development stage company)

Notes to Unaudited Condensed Consolidated Financial Statements

1. Change in Fiscal Year End

On March 31, 2013, the Board of Directors of the Company (the Board) approved a change in the Company's fiscal year end from December 31st to March 31st. As a result of this change, the Company filed a Transition Report on Form 10-KT for the three-month transition period ended March 31, 2013. References to any of the Company's fiscal years mean the fiscal year ending March 31st of that calendar year.

2. Description of Business and Summary of Significant Accounting Policies

Nature of operations and basis of presentation

References in these notes to the unaudited condensed consolidated financial statements to Organovo Holdings, Inc., Organovo Holdings, we, us, our, the Company and our Company refer to Organovo Holdings, Inc. and consolidated subsidiary Organovo, Inc. The Company is developing and commercializing functional three-dimensional (3D) human tissues that can be employed in drug discovery and development, biological research, and as therapeutic implants for the treatment of damaged or degenerating tissues and organs.

As of December 31, 2013, the Company has devoted substantially all of its efforts to product development, raising capital and building infrastructure. The Company has not realized significant revenues from its planned principal operations. Accordingly, the Company is considered to be in the development stage.

The accompanying interim condensed consolidated financial statements have been prepared by the Company, without audit, in accordance with the instructions to Form 10-Q and, therefore, do not necessarily include all information and footnotes necessary for a fair statement of its financial position, results of operations, stockholders' equity (deficit) and cash flows in accordance with generally accepted accounting principles (GAAP). The balance sheet at March 31, 2013 is derived from the audited balance sheet at that date.

In the opinion of management, the unaudited financial information for the interim periods presented reflects all adjustments, which are only normal and recurring, necessary for a fair statement of the Company's financial position, results of operations, stockholders' equity (deficit) and cash flows. These financial statements should be read in conjunction with the financial statements included in the Company's Transition Report filed on Form 10-KT for the transition period ended March 31, 2013 filed with the Securities and Exchange Commission (the SEC) on May 24, 2013. Operating results for interim periods are not necessarily indicative of operating results for the Company's fiscal year ending March 31, 2014.

Reverse merger transaction

On February 8, 2012, Organovo, Inc., a privately held Delaware corporation, merged with and into Organovo Acquisition Corp., a wholly-owned subsidiary of Organovo Holdings, Inc., a publicly traded Delaware corporation, with Organovo, Inc. surviving the merger as a wholly-owned subsidiary of the Company (the Merger). As a result of the Merger, the Company acquired the business of Organovo, Inc., and will continue the existing business operations of Organovo, Inc.

Simultaneously with the Merger, on February 8, 2012 (the closing date), all of the issued and outstanding shares of Organovo, Inc.'s common stock converted, on a 1 for 1 basis, into shares of the Company's common stock, par value \$0.001 per share. Also, on the closing date, all of the issued and outstanding options to purchase shares of Organovo, Inc.'s common stock and other outstanding warrants to purchase Organovo, Inc.'s common stock, and all of the issued and outstanding bridge warrants to purchase shares of Organovo, Inc.'s common stock, converted on a 1 for 1 basis, into options, warrants and new bridge warrants to purchase shares of the Company's common stock.

Immediately following the consummation of the Merger: (i) the former security holders of Organovo, Inc. common stock had an approximate 75% voting interest in the Company and the Company stockholders retained an approximate 25% voting interest, (ii) the former executive management team of Organovo, Inc. remained as the only continuing executive management team for the Company, and (iii) the Company's ongoing operations consist solely of the ongoing operations of Organovo, Inc. Based primarily on these factors, the Merger was accounted for as a reverse merger and a recapitalization in accordance with GAAP. As a result, these financial statements reflect the historical results of Organovo, Inc. prior to the Merger, and the combined results of the Company following the Merger. The par value of Organovo, Inc. common stock immediately prior to the Merger was \$0.0001 per share. The par value subsequent to the Merger is \$0.001 per share, and therefore the historical results of Organovo, Inc. prior to the Merger have been retroactively adjusted to affect the change in par value.

In connection with three separate closings of a private placement transaction completed in connection with the Merger (the Private Placement), the Company received gross proceeds of approximately \$5.0 million, \$1.8 million and \$6.9 million on closings on February 8, 2012, February 29, 2012 and March 16, 2012, respectively. In 2011, the Company received \$1.5 million from the purchase of 6% convertible notes which were automatically converted into 1,500,000 shares of common stock, plus 25,387 shares for accrued interest of \$25,387 on the principal, on February 8, 2012.

The cash transaction costs related to the Merger were approximately \$2.1 million.

Before the Merger, Organovo Holdings Board of Directors and stockholders adopted the 2012 Equity Incentive Plan (the 2012 Plan). In addition, Organovo Holdings assumed and adopted Organovo, Inc.'s 2008 Equity Incentive Plan.

NYSE:MKT Listing

On July 9, 2013, the Company announced that its common stock had been approved to list on the NYSE:MKT. Shares began trading on the New York Stock Exchange on July 11, 2013 under the symbol ONVO . Prior to that time, the Company's shares were quoted on the OTC QX.

Liquidity

As of December 31, 2013, the Company had an accumulated deficit of approximately \$85.7 million. The Company also had negative cash flows from operations of approximately \$10.2 million during the nine months ended December 31, 2013.

In August of 2013, the Company raised net proceeds of approximately \$43.4 million through the sale of 10,350,000 shares of its common stock in a public offering (see Note 4).

In addition, in November 2013, the Company entered into an equity distribution agreement with an investment banking firm. Under the terms of the distribution agreement, the Company may offer and sell up to 4,000,000 shares of its common stock, from time to time, through the investment bank in at the market offerings, as defined by the SEC, and pursuant to the Company's effective shelf registration statement previously filed with the SEC. As of the three months ended December 31, 2013, the Company had not sold any shares under the distribution agreement.

Through December 31, 2013, the Company has financed its operations primarily through the sale of convertible notes, the private placement of equity securities, the public offering of common stock, and through revenue derived from grants or collaborative research agreements. Based on its current operating plan and available cash resources, the Company has sufficient resources to fund its business for at least the next twelve months.

The Company cannot predict with certainty when, if ever, it will require additional capital to further fund the product development and commercialization of its human tissues that can be employed in drug discovery and development, biological research, and as therapeutic implants for the treatment of damaged or degenerating tissues and organs. The Company intends to cover its future operating expenses through cash on hand, and from revenue derived from grants and collaborative research agreements. However, the Company cannot provide assurance that it will not require additional funding in the future. In addition, the Company cannot be sure that additional financing will be available if and when needed, or that, if available, financing will be obtained on terms favorable to the Company and its stockholders. Having insufficient funds may require the Company to delay, scale back, or eliminate some or all of its development programs or relinquish rights to its technology on less favorable terms than it would otherwise choose. Failure to obtain adequate financing could eventually adversely affect the Company's ability to operate as a going concern.

Use of estimates

The preparation of the financial statements in conformity with accounting principles generally accepted in the United States requires management to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results could differ from those estimates. Significant estimates used in preparing the condensed consolidated financial statements include those assumed in computing the valuation of warrants, revenue recognized under the proportional performance model, the valuation of stock-based compensation expense, and the valuation allowance on deferred tax assets.

Financial instruments

For certain of the Company's financial instruments, including cash and cash equivalents, grants receivable, inventory, prepaid expenses and other current assets, accounts payable, accrued expenses, deferred revenue and capital lease obligations, the carrying amounts are generally considered to be representative of their respective fair values because of the short-term nature of those instruments.

Cash and cash equivalents

The Company considers all highly liquid investments with original maturities of 90 days or less to be cash equivalents.

Derivative financial instruments

The Company does not use derivative instruments to hedge exposures to cash flow, market or foreign currency.

The Company reviews the terms of convertible debt and equity instruments it issues to determine whether there are derivative instruments, including an embedded conversion option that is required to be bifurcated and accounted for separately as a derivative financial instrument. In circumstances where a host instrument contains more than one embedded derivative instrument, including a conversion option, that is required to be bifurcated, the bifurcated derivative instruments are accounted for as a single, compound derivative instrument. Also, in connection with the sale of convertible debt and equity instruments, the Company may issue freestanding warrants that may, depending on their terms, be accounted for as derivative instrument liabilities, rather than as equity.

Derivative instruments are initially recorded at fair value and are then revalued at each reporting date with changes in the fair value reported as non-operating income or expense. When the convertible debt or equity instruments contain embedded derivative instruments that are to be bifurcated and accounted for as liabilities, the total proceeds allocated to the convertible host instruments are first allocated to the fair value of all the bifurcated derivative instruments. The remaining proceeds, if any, are then allocated to the convertible instruments themselves, usually resulting in those instruments being recorded at a discount from their face value.

The discount from the face value of the convertible debt, together with the stated interest on the instrument, is amortized over the life of the instrument through periodic charges to interest expense, using the effective interest method.

Restricted cash

As of December 31, 2013 and March 31, 2013, the Company had approximately \$78,800 and \$88,300, respectively, of restricted cash deposited with a financial institution. The entire \$78,800 as of December 31, 2013 and \$38,300 of the balance as of March 31, 2013 is held in certificates of deposit to support a letter of credit agreement related to the facility lease entered into during 2012. In December 2013, the lease was amended to increase the rented area by 15,268 square feet, and as such, the Company was required to increase the amount held in certificates of deposit to support the increased letter of credit as required by the lease amendment. The additional \$50,000 included in the March 31, 2013 balance represents funds held by a financial institution as a guarantee for the Company's commercial credit cards. These funds were released from restriction during the nine months ended December 31, 2013 as a result of the Company transferring its credit card program to a different financial institution.

Grant receivable

Grant receivable as of December 31, 2013 represents the amount due under a private research grant that began in October 2013. Grant receivable as of December 31, 2012 represents the amount due from the National Institutes of Health (NIH) under a research grant that concluded in April 2013. The Company considers the grants receivable to be fully collectible; and accordingly, no allowance for doubtful amounts has been established. If amounts become uncollectible, they are charged to operations.

Inventory

Inventories are stated at the lower of the cost or market (first-in, first-out). Inventory at December 31, 2013 and March 31, 2013 consisted of approximately \$82,000 and \$88,000 in raw materials, respectively.

The Company provides inventory allowances based on excess or obsolete inventories determined based on anticipated use in the final product. There was no obsolete inventory reserve as of December 31, 2013 or March 31, 2013.

Fixed assets and depreciation

Property and equipment are carried at cost. Expenditures that extend the life of the asset are capitalized and depreciated. Depreciation and amortization are provided using the straight-line method over the estimated useful lives of the related assets or, in the case of leasehold improvements, over the lesser of the useful life of the related asset or the lease term. The estimated useful lives of the fixed assets range between two and five years.

Impairment of long-lived assets

In accordance with authoritative guidance, the Company reviews its long-lived assets, including property and equipment and other assets, for impairment whenever events or changes in circumstances indicate that the carrying amounts of the assets may not be fully recoverable. To determine recoverability of its long-lived assets, the Company evaluates whether future undiscounted net cash flows will be less than the carrying amount of the assets and adjusts the carrying amount of its assets to fair value. Management has determined that no impairment of long-lived assets occurred in the period from inception through December 31, 2013.

Fair value measurement

Financial assets and liabilities are measured at fair value, which is defined as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Valuation techniques used to measure fair value must maximize the use of observable inputs and minimize the use of unobservable inputs. The following is a fair value hierarchy based on three levels of inputs, of which the first two are considered observable and the last unobservable, that may be used to measure fair value:

Level 1 Quoted prices in active markets for identical assets or liabilities.

Level 2 Inputs other than Level 1 that are observable, either directly or indirectly, such as quoted prices for similar assets or liabilities; quoted prices in markets that are not active; or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities.

Level 3 Unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities.

The Company has issued warrants, of which some are classified as derivative liabilities as a result of the terms in the warrants that provide for down-round protection in the event of a dilutive issuance. The Company uses Level 3 inputs for its valuation methodology for the warrant derivative liabilities. The estimated fair values were determined using a Monte Carlo option pricing model based on various assumptions (see Note 3). The Company's derivative liabilities are adjusted to reflect estimated fair value at each period end, with any decrease or increase in the estimated fair value being recorded in other income or expense accordingly, as adjustments to the fair value of derivative liabilities. Various factors are considered in the pricing models the Company uses to value the warrants, including the Company's current stock price, the remaining life of the warrants, the volatility of the Company's stock price, and the risk-free interest rate. Future changes in these factors will have a significant impact on the computed fair value of the warrant liability. As such, the Company expects future changes in the fair value of the warrants to continue to vary significantly from quarter to quarter.

The estimated fair values of the liabilities measured on a recurring basis are as follows:

Fair Value Measurements at December 31 and March 31, 2013 (in thousands):

| | Balance at December 31, 2013 | Quoted Prices in Active Markets (Level 1) | Significant Other Observable Inputs (Level 2) | Significant Other Unobservable Inputs (Level 3) |
|-------------------|---|--|--|--|
| Warrant liability | \$ 1,006 | | | \$ 1,006 |
| | Balance at March 31, 2013 | Quoted Prices in Active Markets (Level 1) | Significant Other Observable Inputs (Level 2) | Significant Other Unobservable Inputs (Level 3) |

| | | | | |
|-------------------|----|-------|----|-------|
| Warrant liability | \$ | 6,898 | \$ | 6,898 |
|-------------------|----|-------|----|-------|

The following table presents the activity for liabilities measured at estimated fair value using unobservable inputs for 2012 through December 31, 2013:

Fair Value Measurements Using Significant Unobservable Inputs (Level 3)

| | Warrant Derivative Liability (\$000 s) |
|--|---|
| Balance at December 31, 2011 | \$ 1,267 |
| Issuances | 32,742 |
| Adjustments to estimated fair value | 9,931 |
| Warrant liability removal due to settlements | (23,321) |
| Balance at December 31, 2012 | \$ 20,619 |
| Issuances | |
| Adjustments to estimated fair value | 12,034 |
| Warrant liability removal due to settlements | (23,869) |
| Warrant liability reclassified to equity | (1,886) |
| Balance at March 31, 2013 | \$ 6,898 |
| Issuances | |
| Adjustments to estimated fair value | 5,397 |
| Warrant liability removal due to settlements | (10,522) |
| Warrant liability reclassified to equity | (767) |
| Balance at December 31, 2013 | \$ 1,006 |

Research and development

Research and development expenses, including direct and allocated expenses, consist of independent research and development costs, as well as costs associated with sponsored research and development. Research and development costs are expensed as incurred.

Income taxes

Deferred income taxes are recognized for the tax consequences in future years for differences between the tax basis of assets and liabilities and their financial reporting amounts at each year end based on enacted tax laws and statutory tax rates applicable to the periods in which the differences are expected to affect taxable income. Valuation allowances are established when necessary to reduce deferred tax assets to the amount expected to be realized. Income tax expense is the combination of the tax payable for the year and the change during the year in deferred tax assets and liabilities.

Revenue recognition

The Company's revenues are derived from collaborative research agreements, grants from the NIH, U.S. Treasury Department and private not-for-profit organizations, as well as the sale of Bioprinter related products and services, and license agreements.

The Company recognizes revenue when the following criteria have been met: (i) persuasive evidence of an arrangement exists; (ii) services have been rendered or product has been delivered; (iii) price to the customer is fixed and determinable; and (iv) collection of the underlying receivable is reasonably assured.

Billings to customers or payments received from customers are included in deferred revenue on the balance sheet until all revenue recognition criteria are met. As of December 31, 2013 and March 31, 2013, the Company had approximately \$20,000 and \$62,000, respectively, in deferred revenue related to its collaborative research programs.

Product Revenue

The Company recognizes product revenue at the time of shipment to the customer, provided all other revenue recognition criteria have been met. The Company recognizes product revenues upon shipment to distributors, provided that (i) the price is substantially fixed or determinable at the time of sale; (ii) the distributor's obligation to pay the Company is not contingent upon resale of the products; (iii) title and risk of loss passes to the distributor at the time of shipment; (iv) the distributor has economic substance apart from that provided by the Company; (v) the Company has no significant obligation to the distributor to bring about the resale of the products; and (vi) future returns can be reasonably estimated. For any sales that do not meet all of the above criteria, revenue is deferred until all such criteria have been met.

Research and Development Revenue Under Collaborative Agreements

The Company's collaboration revenue consists of license and collaboration agreements that contain multiple elements, including non-refundable up front fees, payments for reimbursement of third-party research costs, payments for ongoing research, payments associated with achieving specific development milestones and royalties based on specified percentages of net product sales, if any. The Company considers a variety of factors in determining the appropriate method of revenue recognition under these arrangements, such as whether the elements are separable, whether there are determinable fair values and whether there is a unique earnings process associated with each element of a contract.

The Company recognizes revenue from research funding under collaboration agreements when earned on a proportional performance basis as research hours are incurred. The Company performs services as specified in each respective agreement on a best-efforts basis, and is reimbursed based on labor hours incurred on each contract. The Company initially defers revenue for any amounts billed or payments received in advance of the services being performed and recognizes revenue pursuant to the related pattern of performance, based on total labor hours incurred relative to total labor hours estimated under the contract.

In December 2010, the Company entered into a 12 month research contract agreement with a third party, whereby the Company was engaged to perform research and development services on a fixed-fee basis for approximately \$600,000. Based on the proportional performance criteria, total revenue recognized on the contract from inception through December 31, 2013 was approximately \$600,000.

In October 2011, the Company entered into a research contract agreement with a third party, whereby the Company is performing research and development services on a fixed-fee basis for \$1,365,000. The agreement included an initial payment to the Company of approximately \$239,000 with remaining payments expected to occur over a twenty-one month period. On November 27, 2012, the agreement was amended to include additional research and development services up to an additional \$135,000, bringing the total potential contract value to \$1,500,000. The third party ultimately elected to have only \$40,000 of these additional research and development services performed by the Company, resulting in a total contract value of \$1,405,000. The amendment extended the original contract (which runs concurrently) from twenty-one months to twenty-eight months. The Company recorded approximately \$59,000 and \$207,000 of revenue related to the research contract in recognition of the proportional performance achieved, for the three months ended December 31, 2013 and 2012, respectively and \$174,000 and \$765,000 of revenue for the nine months ended December 31, 2013 and 2012, respectively. Total revenue recognized on the contract from inception through December 31, 2013 was \$1,395,000.

Revenue Arrangements with Multiple Deliverables

The Company occasionally enters into revenue arrangements that contain multiple deliverables. Judgment is required to properly identify the accounting units of the multiple deliverable transactions and to determine the manner in which

revenue should be allocated among the accounting units. Moreover, judgment is used in interpreting the commercial terms and determining when all criteria of revenue recognition have been met for each deliverable in order for revenue recognition to occur in the appropriate accounting period. For multiple deliverable agreements, consideration is allocated at the inception of the agreement to all deliverables based on their relative selling price. The relative selling price for each deliverable is determined using vendor-specific objective evidence (VSOE) of selling price or third-party evidence of selling price if VSOE does not exist. If neither VSOE nor third-party evidence of selling price exists, the Company uses its best estimate of the selling price for the deliverable.

The Company recognizes revenue for delivered elements only when it determines there are no uncertainties regarding customer acceptance. While changes in the allocation of the arrangement consideration between the units of accounting will not affect the amount of total revenue recognized for a particular sales arrangement, any material changes in these allocations could impact the timing of revenue recognition, which could affect the Company's results of operations.

The Company expects to periodically receive license fees for non-exclusive research licensing associated with funded research projects. License fees under these arrangements are recognized over the term of the contract or development period as it has been determined that such licenses do not have stand-alone value.

Grant Revenues

During 2010, the U.S. Treasury awarded the Company two one-time grants totaling approximately \$397,000 for investments in qualifying therapeutic discovery projects under section 48D of the Internal Revenue Code. The grants cover reimbursement for qualifying expenses incurred by the Company in 2010 and 2009. The proceeds from these grants are classified in Revenues Grants for the period from inception through December 31, 2013.

During 2012, 2010 and 2009, the NIH awarded the Company three research grants totaling approximately \$558,000. Revenues from the NIH grants are based upon internal and subcontractor costs incurred that are specifically covered by the grants, and where applicable, an additional facilities and administrative rate that provides funding for overhead expenses. These revenues are recognized when expenses have been incurred by subcontractors and as the Company incurs internal expenses that are related to the grants. Revenue recognized under these grants was approximately \$0 and \$67,000, for the three months ended December 31, 2013 and 2012, respectively, and \$12,000 and \$162,000 for the nine months ended December 31, 2013 and 2012, respectively. Total revenue recorded under these grants from inception through December 31, 2013 was approximately \$558,000.

During 2013, the Company was awarded a research grant by a private, not-for-profit organization for up to \$251,700, contingent on go/no-go decisions made by the grantor at the completion of each stage of research as outlined in the grant award. Revenues from the grant are based upon internal costs incurred that are specifically covered by the grant, plus an additional rate that provides funding for overhead expenses. Revenue is recognized when the Company incurs expenses that are related to the grant. Revenue recognized under this grant was approximately \$38,000 and \$0, for the three months ended December 31, 2013 and 2012, respectively, and \$38,000 and \$0 for the nine months ended December 31, 2013 and 2012, respectively. Total revenue recorded under this grant from inception through December 31, 2013 was approximately \$38,000.

Stock-based compensation

The Company accounts for stock-based compensation in accordance with the Financial Accounting Standards Board's ASC Topic 718, *Compensation - Stock Compensation*, which establishes accounting for equity instruments exchanged for employee services. Under such provisions, stock-based compensation cost is measured at the grant date, based on the calculated fair value of the award, and is recognized as an expense, under the straight-line method, over the employee's requisite service period (generally the vesting period of the equity grant).

The Company accounts for equity instruments, including restricted stock or stock options, issued to non-employees in accordance with authoritative guidance for equity based payments to non-employees. Stock options issued to non-employees are accounted for at their estimated fair value determined using the Black-Scholes option-pricing model. The fair value of options granted to non-employees is re-measured as they vest, and the resulting increase in value, if any, is recognized as expense during the period the related services are rendered. Restricted stock issued to non-employees is accounted for at its estimated fair value as it vests.

Comprehensive income (loss)

Comprehensive income (loss) is defined as the change in equity during a period from transactions and other events and circumstances from non-owner sources. The Company is required to record all components of comprehensive income (loss) in the financial statements in the period in which they are recognized. Net income (loss) and other comprehensive income (loss), including unrealized gains and losses on investments, are reported, net of their related tax effect, to arrive at comprehensive income (loss). For the three and nine months ended December 31, 2013 and 2012, respectively, and for the period April 19, 2007 (inception) through December 31, 2013, the comprehensive loss was equal to the net loss.

Net loss per share

Basic and diluted net loss per share has been computed using the weighted-average number of shares of common stock outstanding during the period. The weighted-average number of shares used to compute diluted loss per share excludes any assumed exercise of stock options and warrants, the assumed release of restriction of restricted stock units, and shares subject to repurchase as the effect would be anti-dilutive. No dilutive effect was calculated for the three and nine months ended December 31, 2013 or 2012, as the Company reported a net loss for each respective period and the effect would have been anti-dilutive.

3. Derivative Liability

During 2012, in connection with the reverse Merger and the three offerings under the Private Placement, the Company issued 21,347,182 five-year warrants to purchase the Company's common stock. In October and November 2011, the Company issued 1,500,000 five-year warrants in connection with Convertible Notes. The exercise price of the warrants is protected against down-round financing throughout the term of the warrant. Pursuant to ASC 815-15 and ASC 815-40, the fair value of the warrants of approximately \$32.7 million and \$1.3 million in 2012 and 2011, respectively, was recorded as a derivative liability on the issuance dates.

The Company revalues the warrants as of the end of each reporting period, and the estimated fair value of the outstanding warrant liabilities was approximately \$1.0 million and \$6.9 million, as of December 31, 2013 and March 31, 2013, respectively. The changes in fair value of the derivative liabilities for the three months ended December 31, 2013 and 2012 were increases of approximately \$0.6 million and \$4.8 million, respectively, and are included in other expense in the statement of operations. The changes in fair value of the derivative liabilities for the nine months ended December 31, 2013 and 2012 were an increase of approximately \$5.4 million and a decrease of approximately \$3.6 million, respectively.

During the three months ended December 31, 2013 and 2012, 60,176 and 11,241,762 warrants, respectively, that were classified as derivative liabilities were exercised. During the nine months ended December 31, 2013 and 2012, 1,878,104 and 13,010,237 warrants, respectively, that were classified as derivative liabilities were exercised. The warrants were revalued as of the settlement dates, and the change in fair value was recognized to earnings. In addition, during the nine months ended December 31, 2013, the Company entered into amendment agreements with certain of the warrant holders, which removed the down-round pricing protection provisions, resulting in 269,657 of these warrants being reclassified from liability instruments to equity instruments. The Company also recognized a reduction in the warrant liability based on the fair value as of the settlement date for the warrants exercised and as of the modification date for the warrants that were amended, with a corresponding increase in additional paid-in capital.

The derivative liabilities were valued at the closing dates of the Private Placement and the end of each reporting period using a Monte Carlo valuation model with the following assumptions:

| | December 31, 2013 | March 31, 2013 | December 31, 2012 |
|--|------------------------------|---------------------------|------------------------------|
| Closing price per share of common stock | \$ 11.07 | \$ 3.68 | \$ 2.60 |
| Exercise price per share | \$ 1.00 | \$ 1.00 | \$ 1.00 |
| Expected volatility | 82.3% | 88.8% | 92.9% |
| Risk-free interest rate | 0.78% | 0.57% | 0.54% |
| Dividend yield | | | |
| Remaining expected term of underlying securities (years) | 3.20 | 3.88 | 4.16 |

In addition, as of the valuation dates, management assessed the probabilities of future financing assumptions in the Monte Carlo valuation models. Management also applied a discount for lack of marketability to the valuation of the derivative liabilities based on such trading restrictions due to certain of the shares not being registered.

4. Stockholders' Equity

Common stock

A shelf registration statement on Form S-3 (File No. 333-189995), or shelf, was filed with the SEC on July 17, 2013 authorizing the offer and sale in one or more offerings of up to \$100,000,000 in aggregate of common stock, preferred stock, debt securities, warrants to purchase common stock, preferred stock or debt securities, or any combination of the foregoing, either individually or as units comprised of one or more of the other securities. This shelf was declared effective by the SEC on July 26, 2013.

On August 2, 2013, the Company, entered into an Underwriting Agreement (the Underwriting Agreement) with Lazard Capital Markets LLC, acting as representative of the underwriters named in the Underwriting Agreement (the Underwriters) and joint book-runner with Oppenheimer & Co. Inc., relating to the issuance and sale of 10,350,000 shares of the Company s common stock, which includes the issuance and sale of 1,350,000 shares pursuant to an overallotment option exercised by the Underwriters on August 5, 2013. JMP Securities LLC and Maxim Group LLC each acted as co-managers for the offering. The price to the public in the Offering was \$4.50 per share, and the Underwriters purchased the shares from the Company pursuant to the Underwriting Agreement at a price of \$4.23 per share. The net proceeds to the Company from the Offering were approximately \$43.4 million, after deducting underwriting discounts and commissions and other offering expenses of \$3.2 million payable by the Company, including the Underwriters exercise of the overallotment option. The transactions contemplated by the Underwriting Agreement closed on August 7, 2013.

The Underwriting Agreement contained customary representations, warranties and agreements by the Company, customary conditions to closing, indemnification obligations of the Company and the Underwriters, including for liabilities under the Securities Act, other obligations of the parties and termination provisions.

The representations, warranties and covenants contained in the Underwriting Agreement were made only for purposes of the Underwriting Agreement as of specific dates indicated therein, were solely for the benefit of the parties to the Underwriting Agreement, and may be subject to limitations agreed upon by the parties, including being qualified by confidential disclosures exchanged between the parties in connection with the execution of the Underwriting Agreement.

In November 2013, the Company entered into an equity distribution agreement with an investment banking firm. Under the terms of the distribution agreement, the Company may offer and sell up to 4,000,000 shares of its common stock, from time to time, through the investment bank in at the market offerings, as defined by the SEC, and pursuant to the Company's effective shelf registration statement previously filed with the SEC. As of the three months ended December 31, 2013, the Company had not sold any shares under the distribution agreement (see Note 7).

In addition, during the three months ended December 31, 2013 and 2012, the Company issued 533,533 and 11,612,791 shares of common stock, respectively, upon the exercise of warrants. During the nine months ended December 31, 2013 and 2012, the Company issued 2,404,519 and 13,423,622 shares of common stock, respectively, upon the exercise of warrants.

Restricted stock awards

In May 2008, the Board of Directors of the Company approved the 2008 Equity Incentive Plan (the 2008 Plan). The 2008 Plan authorized the issuance of up to 1,521,584 common shares for awards of incentive stock options, non-statutory stock options, restricted stock awards, restricted stock award units, and stock appreciation rights. The 2008 Plan terminates on July 1, 2018. No shares were issued under the 2008 Plan during 2012 or the nine months ended December 31, 2013, and the Company does not intend to issue any additional shares from the 2008 Plan in the future.

From 2008 through December 31, 2011, the Company issued a total of 1,258,934 shares of restricted common stock to various employees, advisors, and consultants of the Company. Of those shares, 1,086,662 were issued under the 2008 Plan and the remaining 172,272 shares were issued outside the plan.

In January 2012, the Board of Directors of the Company approved the 2012 Equity Incentive Plan (the 2012 Plan). The 2012 Plan authorized the issuance of up to 6,553,986 shares of common stock for awards of incentive stock options, non-statutory stock options, stock appreciation rights, restricted stock, restricted stock units, performance units, performance shares, and other stock or cash awards. In August 2013, the Board of Directors of the Company approved an amendment to the 2012 Plan to increase the number of shares of common stock that may be issued under the 2012 Plan by 5,000,000 shares, for an aggregate of 11,553,986 shares issuable under the 2012 Plan. The 2012 Plan terminates ten years after its adoption.

There were 1,380,000 shares of restricted stock issued during the three and nine months ended December 31, 2012, respectively.

During the nine months ended December 31, 2013, the Company issued an aggregate of 60,000 restricted stock units with immediate vesting to a consultant.

During the three months ended December 31, 2013 and 2012, there were 3,703 and 9,021 shares of restricted stock, respectively, cancelled related to shares of common stock returned to the Company, at the option of the holders, to

cover the tax liability related to the vesting of 8,750 and 21,250 restricted stock units, respectively. During the nine months ended December 31, 2013 and 2012, there were 164,243 and 89,674 shares of restricted stock, respectively, cancelled related to shares of common stock returned to the Company, at the option of the holders, to cover the tax liability related to the vesting of 305,000 and 211,250 restricted stock units, respectively. Upon the return of the common stock, an equal number of stock options with immediate vesting were granted to the individuals at the vesting date market value strike price.

A summary of the Company's restricted stock award activity for 2012 through December 31, 2013 is as follows:

| | Number of Shares |
|-------------------------------|-----------------------------|
| Unvested at December 31, 2011 | 1,111,295 |
| Granted | 1,380,000 |
| Vested | (1,143,735) |
| Canceled / forfeited | (185,516) |
| Unvested at December 31, 2012 | 1,162,044 |
| Granted | 55,000 |
| Vested | (196,612) |
| Canceled / forfeited | (34,690) |
| Unvested at March 31, 2013 | 985,742 |
| Granted | 60,000 |
| Vested | (365,000) |
| Canceled / forfeited | |
| Unvested at December 31, 2013 | 680,742 |

The fair value of each restricted common stock award is recognized as stock-based compensation expense over the vesting term of the award. The Company recorded restricted stock-based compensation expense in operating expenses for employees and non-employees of approximately \$681,000 and \$834,000 for the nine months ended December 31, 2013 and 2012, respectively. The Company recorded restricted share-based compensation expense of approximately \$1,837,000 for the period from April 19, 2007 (inception) through December 31, 2013. Share-based compensation expense included in research and development was \$12,000 and \$82,000 for the nine months ended December 31, 2013 and 2012, respectively. Share-based compensation expense included in general and administrative expense was \$669,000 and \$750,000 for the nine months ended December 31, 2013 and 2012, respectively.

As of December 31, 2013, total unrecognized restricted stock-based compensation expense was approximately \$883,000, which will be recognized over a weighted average period of 1.7 years.

Stock options

Under the 2008 Plan, on October 12, 2011, the Company granted an officer incentive stock options to purchase 896,256 shares of common stock at an exercise price of \$0.08 per share, a quarter of which vested on the one year anniversary of employment, in May 2012, and the remaining options are vesting ratably over the remaining 36 month term. Other than this grant, the Company does not intend to issue any additional shares under the 2008 Plan.

Under the 2012 Plan, 91,203 and 296,833 incentive stock options were issued during the three months ended December 31, 2013 and 2012, respectively, and 372,243 and 1,829,394 incentive stock options were issued during the nine months ended December 31, 2013 and 2012, respectively, at various exercise prices. The stock options generally vest over a four-year period, with a quarter vesting on either the one year anniversary of employment or the one year anniversary of the vesting commencement date, and the remainder vesting ratably over the remaining 36 month terms. The Company issued 293,500 and 124,000 non-qualified options during the nine months ended December 31, 2013 and 2012 respectively, which vest on the one year anniversary of the grant date or quarterly over three years.

A summary of the Company's stock option activity for 2012 through December 31, 2013 is as follows:

| | Options Outstanding | Weighted- Average Exercise Price | Aggregate Intrinsic Value |
|----------------------------------|--------------------------------|---|--|
| Outstanding at December 31, 2011 | 896,256 | \$ 0.08 | |
| Options granted | 2,023,394 | \$ 1.95 | |
| Options canceled | (5,000) | \$ 2.25 | |
| Options exercised | (224,064) | \$ 0.08 | \$ 564,641 |
| Outstanding at December 31, 2012 | 2,690,586 | \$ 1.48 | \$ 3,041,476 |
| Options granted | 927,981 | \$ 3.93 | |

| | Options Outstanding | Weighted- Average Exercise Price | Aggregate Intrinsic Value |
|---|--------------------------------|---|--|
| Options canceled | | | |
| Options exercised | | | |
| Outstanding at March 31, 2013 | 3,618,567 | \$ 2.11 | \$ 5,909,154 |
| Options granted | 665,743 | \$ 5.32 | |
| Options canceled | (18,455) | 3.31 | |
| Options exercised | (83,801) | \$ 2.33 | \$ 732,521 |
| Outstanding at December 31, 2013 | 4,182,054 | \$ 2.62 | \$ 35,346,304 |
| Vested and Exercisable at December 31, 2013 | 1,400,169 | \$ 1.95 | \$ 14,259,010 |

The weighted-average remaining contractual term of options exercisable and outstanding at December 31, 2013 was approximately 8.5 years and 8.7 years, respectively.

The Company uses the Black-Scholes valuation model to calculate the fair value of stock options. Stock-based compensation expense is recognized over the vesting period using the straight-line method. The fair value of stock options was estimated at the grant date using the following weighted average assumptions:

| | Three Months Ended December 31, 2013 | Three Months Ended December 31, 2012 | Nine Months Ended December 31, 2013 | Nine Months Ended December 31, 2012 |
|--|---|---|--|--|
| Dividend yield | | | | |
| Volatility | 82.3% | 96.2% | 83.9% | 90.8% |
| Risk-free interest rate | 0.78% | 0.89% | 0.82% | 1.04% |
| Expected life of options | 6.00 years | 6.05 years | 6.00 years | 6.04 years |
| Weighted average grant date fair value | \$ 5.54 | \$ 2.39 | \$ 4.00 | \$ 1.52 |

The assumed dividend yield was based on the Company's expectation of not paying dividends in the foreseeable future. Due to the Company's limited historical data, the estimated volatility incorporates the historical and implied volatility of comparable companies whose share prices are publicly available. The risk-free interest rate assumption was based on the U.S. Treasury rates. The weighted average expected life of options was estimated using the average of the contractual term and the weighted average vesting term of the options. Certain options granted to consultants are subject to variable accounting treatment and are required to be revalued until vested.

The total stock option-based compensation recorded as operating expense was approximately \$2,160,000 and \$598,000 for the nine months ended December 31, 2013 and 2012, respectively. The Company recorded stock-based compensation expense of approximately \$3,139,000 for the period from April 19, 2007 (inception) through December 31, 2013. Expense included in research and development was \$262,000 and \$113,000 for the nine months ended December 31, 2013 and 2012, respectively. Expense included in general and administrative was \$1,898,000 and \$485,000 for the nine months ended December 31, 2013 and 2012, respectively.

The total unrecognized compensation cost related to unvested stock option grants as of December 31, 2013 was approximately \$5,241,000 and the weighted average period over which these grants are expected to vest is 2.8 years.

Warrants

During the three months ended December 31, 2013 and 2012, 450,176 and 220,000 warrants, respectively, were exercised through a cashless exercise provision for issuance of 383,403 and 121,279 shares of common stock, respectively. During the nine months ended December 31, 2013 and 2012, 2,485,233 and 272,500 warrants, respectively, were exercised through a cashless exercise provision for issuance of 2,010,889 and 163,635 shares of common stock, respectively. During the three and nine months ended December 31, 2013, 150,130 and 393,630 warrants, respectively, were exercised at prices ranging from \$1.00 to \$3.24 for total proceeds of \$284,696 and \$935,876, respectively, and during the three and nine months ended December 31, 2012, 11,491,512 and 13,259,987 warrants, respectively, were exercised at prices of \$0.80 and \$1.00 for total proceeds of \$9,562,776 and \$11,331,251, respectively.

In December 2012, the Company consummated a warrant tender offer to the holders of outstanding warrants to purchase approximately 14.5 million shares of the Company's common stock. In accordance with the tender offer, for those warrant holders that elected to participate, this resulted in a reduction of the exercise price of the warrants from \$1.00 per share to \$0.80 per share of common stock in cash, shortened the exercise period of the warrants so that they expired concurrently with the tender offer, and removed the price-based anti-dilution provisions contained in the warrants. The Company completed the tender offer on December 21, 2012, resulting in approximately 9.6 million warrants being exercised for gross proceeds of approximately \$7,700,000. In connection with the transaction, the Company recognized an expense for the inducement to exercise the warrants of approximately \$1,900,000. The Company also incurred approximately \$400,000 in placement agent fees, legal costs, and other related fees, which have been recognized as an offset to the proceeds received from the warrant exercises.

60,176 and 11,241,762 of the warrants exercised during the three months ended December 31, 2013 and 2012, and 1,878,104 and 13,010,237 of the warrants exercised during the nine months ended December 31, 2013 and 2012, respectively, were derivative liabilities and were valued at the settlement date. For the three months ended December 31, 2013 and 2012, and the nine months ended December 31, 2013 and 2012, respectively, approximately \$375,000, \$19,593,000, \$10,522,000 and \$23,321,000 of the warrant liability was removed due to the exercise of warrants. (See Note 3).

During March 2013, the Company entered into amendment agreements for 600,065 warrants to purchase common stock which reduced the exercise price of the warrants from \$1.00 to \$0.90, extended the exercise term to five years from the effective date of the amendment, and removed the down-round price protection provision of the warrant agreement related to the adjustment of exercise price upon issuance of additional shares of common stock. As a result of the removal of the down-round price protection provision, the warrants were reclassified from liability to equity instruments at their fair value. The Company determined the incremental expense associated with the modification based on the fair value of the awards prior to and subsequent to the modification. The fair value of the awards subsequent to modification was calculated using the Black-Scholes model. The incremental expense associated with the modification of approximately \$65,000 was recognized as interest expense for the three months ended March 31, 2013.

During April 2013, the Company entered into amendment agreements for 269,657 warrants to purchase common stock which reduced the exercise price of the warrants from \$1.00 to \$0.85 and removed the down-round price protection provision of the warrant agreement related to the adjustment of exercise price upon issuance of additional shares of common stock. As a result of the removal of the down-round price protection provision, the warrants were reclassified from liability to equity instruments at their fair value of \$767,000. The Company determined the incremental expense associated with the modification based on the fair value of the awards prior to and subsequent to the modification. The fair value of the awards subsequent to modification was calculated using the Black-Scholes model. The incremental expense associated with the modification of approximately \$12,000 was recognized as interest expense for the nine months ended December 31, 2013.

During the year ended December 31, 2012, the Company entered into four agreements with consultants for services. In connection with the agreements, the Company issued a total of 650,000 warrants to purchase common stock, at prices ranging from \$1.70 to \$3.24, with lives ranging from two to five years, to be earned over service periods of up to six months. The fair value of the warrants was estimated to be approximately \$890,000, which was recognized as a prepaid asset and was amortized over the term of the consulting agreements. These warrants were classified as equity instruments because they do not contain any anti-dilution provisions. The Black-Scholes model, using volatility rates ranging from 79.8% to 103.8% and risk-free interest rate factors ranging from 0.24% to 0.63%, were used to determine the value. The value has been amortized over the term of the agreements. The Company recognized approximately \$72,000 and \$890,000 during the nine months ended December 31, 2013 and for the period from April 19, 2007 (inception) through December 31, 2013, respectively, related to these services.

Additionally, during November 2013 the Company entered into an agreement with a consultant for services. In connection with the agreement, the Company issued 75,000 warrants to purchase common stock, at a price of \$7.36, with a life of five years, to be earned over a twelve month service period. The fair value of the warrants was estimated to be approximately \$404,000, which was recognized as a prepaid asset and is being amortized over the term of the consulting agreement. These warrants were classified as equity instruments because they do not contain any anti-dilution provisions. The Black-Scholes model, using a volatility rate of 96.90% and a risk-free interest rate factor of 0.60%, was used to determine the value. The Company recognized approximately \$62,000 during the three and nine months ended December 31, 2013 and for the period from April 19, 2007 (inception) through December 31, 2013, respectively, related to these services.

The following table summarizes warrant activity for 2012 through December 31, 2013:

| | Warrants | Weighted-Average Exercise Price |
|------------------------------|-----------------|--|
| Balance at December 31, 2011 | 2,909,750 | \$ 1.00 |
| Granted | 21,997,182 | \$ 1.04 |
| Exercised | (13,532,487) | \$ 0.84 |
| Balance at December 31, 2012 | 11,374,445 | \$ 1.08 |
| Granted | | |
| Exercised | (7,090,556) | \$ 1.01 |
| Balance at March 31, 2013 | 4,283,889 | \$ 1.17 |
| Granted | 112,500 | \$ 7.36 |
| Exercised | (2,878,863) | \$ 1.22 |
| Balance at December 31, 2013 | 1,517,526 | \$ 1.61 |

The warrants outstanding at December 31, 2013 are immediately exercisable at prices between \$0.85 and \$7.36 per share, and have a weighted average remaining term of approximately 2.86 years.

Common stock reserved for future issuance

Common stock reserved for future issuance consisted of the following at December 31, 2013:

| | |
|---|------------|
| Common stock warrants outstanding | 1,517,526 |
| Common stock options outstanding under the 2008 Plan | 672,192 |
| Common stock options outstanding and reserved under the 2012 Plan | 9,580,572 |
| Total | 11,770,290 |

5. Commitments and Contingencies

Operating leases

The Company leases office and laboratory space under a non-cancelable operating lease which was entered into in February 2012 and amended in December 2013, with the future minimum lease payments from the lease included below. The Company records rent expense on a straight-line basis over the life of the lease and records the excess of expense over the amounts paid as deferred rent. Deferred rent is included in accrued expenses in the condensed consolidated balance sheets.

Rent expense was approximately \$112,000 and \$109,000 for the three months ended December 31, 2013 and 2012, respectively, \$322,000 and \$266,000 for the nine months ended December 31, 2013 and 2012, respectively, and \$1,078,000 for the period from April 19, 2007 (inception) through December 31, 2013.

On February 27, 2012, the Company entered into a facilities lease at 6275 Nancy Ridge Drive (the Original Lease), San Diego, CA 92121, with occupancy as of July 15, 2012. The base rent under the lease was approximately \$38,800 per month with 3% annual escalators. The lease term was 48 months with an option for the Company to extend the lease at the end of the lease term.

On December 5, 2013, the Company entered into a First Amendment (the Amendment) to the Original Lease, together with the Amendment, (the Amended Lease). Pursuant to the Amendment, the Company expanded the size of its facility by approximately 15,268 square feet (the Expansion Premises) from approximately 15,539 square feet (the Original Premises) for a total of approximately 30,807 square feet. The Amended Lease provides for base rent (i) on the Original Premises to continue at approximately \$38,800 per month, with annual escalators, until August 1, 2016, at which point the base rent shall be payable at the same rate per rentable square foot as the Expansion Premises and (ii) on the Expansion Premises of approximately \$38,934 per month, with 3% annual escalators, not to commence until two months after the earlier of (A) the date that the landlord delivers possession of the Expansion Premises to the Company with the work in the Expansion Lab Premises (as defined in the Amendment) substantially complete and (B) the date the landlord could have delivered the Expansion Premises with the work in the Expansion Lab Premises (as defined in the Amendment) substantially complete but for certain delays of the Company. Additionally, the Company has a right of first refusal on adjacent additional premises of approximately 14,500 square feet. The term of the Amended Lease expires on the seven-year anniversary of the earlier of (A) the date that the landlord delivers possession of the Expansion Premises to the Company

and (B) the date the landlord could have delivered the Expansion Premises but for certain delays of the Company (the Expansion Premises Commencement Date). The target Expansion Premises Commencement Date is September 1, 2014. The Company also has the option to terminate the Amended Lease on the 5-year anniversary of the Expansion Premises Commencement Date. The Company intends for the Expansion Premises to contain office, laboratory, and clean room areas.

Future minimum rental payments required under operating leases that have initial or remaining non-cancelable lease terms in excess of one year as of December 31, 2013, are as follows (in thousands):

| | |
|----------------------------------|-----------------|
| Fiscal year ended March 31, 2014 | \$ 121 |
| Fiscal year ended March 31, 2015 | 766 |
| Fiscal year ended March 31, 2016 | 981 |
| Fiscal year ended March 31, 2017 | 986 |
| Fiscal year ended March 31, 2018 | 1,004 |
| Thereafter | 3,473 |
| Total | \$ 7,331 |

Legal Matters

In addition to commitments and obligations in the ordinary course of business, the Company is subject to various claims and pending and potential legal actions arising out of the normal conduct of its business. The Company assesses contingencies to determine the degree of probability and range of possible loss for potential accrual in its financial statements. An estimated loss contingency is accrued in its financial statements if it is probable that a liability has been incurred and the amount of the loss can be reasonably estimated. Because litigation is inherently unpredictable and unfavorable resolutions could occur, assessing litigation contingencies is highly subjective and requires judgments about future events. When evaluating contingencies, the Company may be unable to provide a meaningful estimate due to a number of factors, including the procedural status of the matter in question, the presence of complex or novel legal theories, and/or the ongoing discovery and development of information important to the matters. In addition, damage amounts claimed in litigation against it may be unsupported, exaggerated or unrelated to possible outcomes, and as such are not meaningful indicators of its potential liability. The Company regularly reviews contingencies to determine the adequacy of its accruals and related disclosures. The amount of ultimate loss may differ from these estimates. It is possible that cash flows or results of operations could be materially affected in any particular period by the unfavorable resolution of one or more of these contingencies. Whether any losses finally determined in any claim, action, investigation or proceeding could reasonably have a material effect on the Company's business, financial condition, results of operations or cash flows will depend on a number of variables, including: the timing and amount of such losses; the structure and type of any remedies; the monetary significance any such losses, damages or remedies may have on our condensed consolidated financial statements; and the unique facts and circumstances of the particular matter that may give rise to additional factors.

Spencer Trask Matter. On June 28, 2013, the Company filed a lawsuit for declaratory relief in the Supreme Court for the State of New York (case # 652305/2013) against Spencer Trask Ventures, Inc. (STV or Spencer Trask) in connection with a Warrant Solicitation Agency Agreement (the WSAA) that the Company entered into with STV in February 2013 (the New York Action). In the New York Action, the Company is seeking a declaration that the WSAA remains a valid and enforceable agreement. Over the course of several weeks in February 2013, Organovo and STV, through their respective attorneys, negotiated the WSAA pursuant to which the Company engaged STV as the Company's warrant solicitation agent in connection with the Company's efforts to solicit the exercise of outstanding Organovo warrants during the first quarter of 2013. STV's President signed the WSAA on behalf of STV, and the

Company's CEO executed the agreement on behalf of Organovo. Spencer Trask provided services to the Company pursuant to the WSAA, and the Company has paid STV for those services.

The Company's dispute with Spencer Trask arose in March 2013 after the Company approached Spencer Trask about exercising its outstanding warrants to help the Company qualify for up-listing its common stock on the NYSE:MKT. Previously, Spencer Trask had not asserted any claims for additional compensation as a result of the warrant tender offer the Company completed in December 2012. In March 2013, the Company received two demand letters from STV, and a demand for arbitration notice in June 2013. In the first demand letter, STV alleges that it is entitled to compensation (including a cash fee and warrants to purchase common stock) as a result of the warrant tender offer the Company completed in December 2012 and as a result of the notice of warrant redemption the Company completed in March 2013. In the second letter, STV alleges it is entitled to damages because the Company allegedly violated confidentiality provisions in the Placement Agency Agreement (the "PAA") the Company had previously entered into with STV in December 2012 in connection with the private placement financings the Company completed in February and March 2012 (the "Private Placements"), by contacting the warrant holders who participated in the warrant tender offer. In response, on June 28, 2013, the Company filed a lawsuit for declaratory relief in the Supreme Court for the State of New York against STV. The Company's tender offer was made to warrant holders of record relating to warrants already owned by them and whose identity was public

information via a Registration Statement on Form S-1 the Company was required to file to register the resale of the shares underlying their warrants. For these and other reasons, including applicability of the WSAA, the Company believes STV is not entitled to compensation under the PAA and there was no violation of confidentiality. The Company received notice on August 5, 2013 that STV had filed its arbitration demand with the arbitrator (the Arbitration). In July, 2013, the Company filed a motion to stay the arbitration pending determination of the New York Action. In January 2014, the New York Court stayed the New York Action, finding that the arbitrator should determine in the first instance which disputes between the Company and Spencer Trask should proceed in the Arbitration and which disputes between the Company and Spencer Trask should proceed in the New York Court.

The Company believes that the assertions made against it by STV are without merit and the Company intends to continue to vigorously defend against the claims made by STV. The Company has not established a loss contingency accrual for these claims because any potential liability is not probable or estimable. Nonetheless, an unfavorable resolution of these claims could have a material adverse effect on the Company's business, liquidity or financial condition in the reporting period in which such resolution occurs.

Other Legal Matters. In addition to the matter described above, the Company is subject to normal and routine litigation in the ordinary course of business. The Company has not accrued any loss contingencies for such matters. The Company intends to defend itself in any such matters and does not currently believe that the outcome of such matters will have a material adverse effect on its business, liquidity or financial position.

6. Concentrations

Credit risk

Financial instruments that potentially subject the Company to concentrations of credit risk consist principally of temporary cash investments. The Company maintains cash balances at various financial institutions primarily located in San Diego. Accounts at these institutions are secured by the Federal Deposit Insurance Corporation. Balances may exceed federally insured limits. The Company has not experienced losses in such accounts, and management believes that the Company is not exposed to any significant credit risk with respect to its cash and cash equivalents.

7. Subsequent Events

On January 2, 2014, the Company sold 280,000 shares of its common stock in an at the market offering under its distribution agreement with an investment banking firm (see Note 4), for net proceeds of approximately \$3,018,000.

Item 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following management's discussion and analysis should be read in conjunction with the Company's historical consolidated financial statements and the related notes thereto included in our Transition Report filed on Form 10-KT for the transition period ended March 31, 2013. The management's discussion and analysis contains forward-looking statements, such as statements of our plans, objectives, expectations and intentions. Any statements that are not statements of historical fact are forward-looking statements. When used, the words believe, plan, intend, anticipate, target, estimate, expect and the like, and/or future tense or conditional constructions (will, may, could, should, etc.), or similar expressions, identify certain of these forward-looking statements. These forward-looking statements are subject to risks and uncertainties including those under Risk Factors in Item 1A of our Form 10-KT, that could cause actual results or events to differ materially from those expressed or implied by the forward-looking statements in this quarterly report. The Company's actual results and the timing of events could differ materially from those anticipated in these forward-looking statements as a result of several factors. The Company does not undertake any obligation to update forward-looking statements to reflect events or circumstances occurring after the date of this quarterly report.

Basis of Presentation

References in this section to Organovo Holdings, Inc., Organovo Holdings, we, us, our, the Company and our Company refer to Organovo Holdings, Inc. and its consolidated subsidiary Organovo, Inc.

The condensed consolidated financial statements included in this Form 10-Q have been prepared in accordance with the SEC instructions to Quarterly Reports on Form 10-Q. Accordingly, the condensed consolidated financial statements presented elsewhere in this Form 10-Q and discussed below are unaudited and do not contain all the information required by U.S. generally accepted accounting principles (GAAP) to be included in a full set of financial statements. The audited financial statements for our transition period ended March 31, 2013, filed with the SEC on Form 10-KT on May 24, 2013 include a summary of our significant accounting policies and should be read in conjunction with this Form 10-Q. In the opinion of management, all material adjustments necessary to present fairly the results of operations for such periods have been included in this Form 10-Q. All such adjustments are of a normal recurring nature. The results of operations for interim periods are not necessarily indicative of the results of operations for the entire year.

Overview

Organovo, Inc. was founded in Delaware in April 2007. Activities since Organovo, Inc.'s inception through December 31, 2013 were devoted primarily to developing functional three-dimensional (3D) human tissues that can be employed in drug discovery and development, biological research, and as therapeutic implants for the treatment of damaged or degenerating tissues and organs.

On February 8, 2012, Organovo, Inc., a privately held Delaware corporation, merged with and into Organovo Acquisition Corp., a wholly-owned subsidiary of Organovo Holdings, Inc., with Organovo, Inc. surviving the merger as a wholly-owned subsidiary of the Company (the Merger). As a result of the Merger, the Company acquired the business of Organovo, Inc., and will continue the existing business operations of Organovo, Inc.

As of December 31, 2013, Organovo, Inc. has devoted substantially all of its efforts to product development, raising capital and building infrastructure. Organovo, Inc. has not, as of that date, realized significant revenues from its planned principal operations. Accordingly, the Company is considered to be in the development stage.

Critical Accounting Policies, Estimates, and Judgments

Our financial statements are prepared in accordance with accounting principles that are generally accepted in the United States. The preparation of these financial statements requires us to make estimates and judgments that affect the reported amounts of assets and liabilities, disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. We continually evaluate our estimates and judgments, the most critical of which are those related to revenue recognition, valuation of long-lived assets and warrant liability, share-based compensation and the timing of the achievement of collaboration milestones. We base our estimates and judgments on historical experience and other factors that we believe to be reasonable under the circumstances. Materially different results can occur as circumstances change and additional information becomes known. Besides the estimates identified above that are considered critical, we make many other accounting estimates in preparing our financial statements and related disclosures. All estimates, whether or not deemed critical, affect reported amounts of assets, liabilities, revenues and expenses, as well as disclosures of contingent assets and liabilities. These estimates and judgments are also based on historical experience and other factors that are believed to be reasonable under the circumstances. Materially different results can occur as circumstances change and additional information becomes known, even for estimates and judgments that are not deemed critical.

For further information, refer to the Company's audited financial statements and notes thereto included in the Transition Report on Form 10-KT for the transition period ended March 31, 2013, filed with the Securities and Exchange Commission (the "SEC") on May 24, 2013.

Results of Operations

Comparison of the three months ended December 31, 2013 and 2012

Revenues

For the three months ended December 31, 2013, total revenues of \$0.1 million were \$0.2 million or 67% below the approximately \$0.3 million in revenues for the same period in 2012. Collaborative research revenues for the three months ended December 31, 2013 of less than \$0.1 million decreased \$0.2 million or 67% from the same period of prior year of approximately \$0.3 million in revenues. This decrease reflects declining activity under an existing collaborative agreement and the conclusion of a previous collaborative research agreement during the three months ended December 31, 2012, partially offset by increasing revenue contributions from three recently signed agreements.

Operating Expenses

Overview

Operating expenses increased approximately \$1.5 million or 45% in the three months ended December 31, 2013 over the same period in 2012, from approximately \$3.3 million in 2012 to \$4.8 million in 2013. Most significantly, relative to the same period in the prior year, the Company invested in building its research, development and administrative staff, increasing its headcount from twenty-nine full-time employees as of December 31, 2012 to thirty-nine full-time employees as of December 31, 2013. This resulted in an increase in staffing expenses of approximately \$0.4 million or 34% over the same period in 2012. In addition, share-based compensation expense increased \$0.6 million for the three months ended December 31, 2013 due to additional grants during the year and a significant increase in the Company's stock price from December 31, 2012 to December 31, 2013. Finally, the Company has increased its investment in developing enhancements to its Bioprinting technology.

Research and Development Expenses

For the three months ended December 31, 2013, research and development expenses increased by approximately \$1.2 million or 109% over the same period in 2012, as the Company increased its research staff to support its obligations under certain collaborative research agreements and to expand its product development efforts in preparation for research-derived revenues. Full-time research and development staffing increased from nineteen full-time employees as of December 31, 2012 to twenty-six full-time employees as of December 31, 2013. In addition to the increase in payroll and benefits expense of approximately \$0.2 million resulting from increased staffing levels, the Company increased its spending on lab equipment, supplies and contracted services in proportion to its increased research activities. In addition, the Company has invested additional resources to advance its Bioprinting technology during the period.

General and Administrative Expenses

For the three months ended December 31, 2013, general and administrative expenses were approximately \$2.4 million, an increase of \$0.3 million or 14%, over expenses in the same period of 2012 of approximately \$2.1 million. Share-based compensation increased \$0.5 million due to additional grants and increasing stock prices from December 31, 2012 to December 31, 2013. Staffing expense increased \$0.2 million due to an increase in administrative headcount from ten full-time employees to thirteen full-time employees to provide strategic

infrastructure in developing collaborative relationships and preparation for commercialization of research-derived product introductions. These increases were partially offset by a decrease in consulting costs due to more vendor warrants established at fair value and amortized to expense during the three months ended December 31, 2012, as well as lower reliance on contracted services during the three months ended December 31, 2013 as certain activities were brought in-house with the increase in administrative headcount.

Other Income (Expense)

The approximate \$6.1 million decrease in other expense for the three month period ending December 31, 2013 compared to the same period of the prior year, was primarily related to the change in fair value associated with the warrants issued in our 2012 Private Placement. During the first quarter of calendar 2012, we issued warrants to purchase 6,099,195 shares of our common stock to the placement agent and warrants to purchase 15,247,987 shares of our common stock to investors in the Private Placement. The warrants issued to the placement agent and Private Placement investors were determined to be derivative liabilities as a result of the anti-dilution provisions in the warrant agreements that may result in an adjustment to the warrant exercise price. As a result of increasing stock prices during the three months ended December 31, 2012, the fair value of the derivative liability increased, resulting in the recognition of other expense of approximately \$4.7 million. The majority of the underlying warrants have been exercised prior to December 31, 2013 or modified and reclassified as equity instruments. The increase in the fair value of the warrant liability during the three months ended December 31, 2013 was \$0.6 million, which was recognized to other expense during the period. The Company will continue to revalue the derivative liability at each balance sheet date until the securities to which the derivative liabilities relate are exercised or expire. In addition, the Company completed a warrant tender offer in December 2012 to amend certain outstanding warrants to include a reduction of the exercise price of the warrants from \$1.00 per share to \$0.80 per share of common stock. In connection with the transaction, the Company recognized an expense for the inducement to exercise the warrants of approximately \$1.9 million.

Comparison of the nine months ended December 31, 2013 and 2012**Revenues**

For the nine months ended December 31, 2013, total revenues of approximately \$0.3 million were \$0.8 million or 73% below the approximately \$1.1 million in revenues for the same period in 2012. Collaborative research revenues for the nine months ended December 31, 2013 of approximately \$0.2 million decreased \$0.7 million or 78% from the same period of prior year of approximately \$0.9 million in revenues. This decrease reflects declining activity under an existing collaborative agreement and the conclusion of a previous collaborative research agreement during the three months ended December 31, 2012, partially offset by increasing revenue contributions from three recently signed agreements.

Operating Expenses**Overview**

Operating expenses increased approximately \$5.1 million or 56% in the nine months ended December 31, 2013 over the same period in 2012, from approximately \$9.1 million in 2012 to \$14.2 million in 2013. Most significantly, relative to the same period in the prior year, the Company invested in building its research, development and administrative staff, increasing its headcount from twenty-nine full-time employees as of December 31, 2012 to thirty-nine full-time employees as of December 31, 2013. This resulted in an increase in staffing expenses of approximately \$2.2 million or 67% over the same period in 2012. In addition, stock-based compensation increased approximately \$1.4 million from \$1.4 million to \$2.8 million for the same period due to the increase in grants for additional staffing, common stock granted to consultants and the increase in expense due to the fair value increase from exercise prices that have risen with the underlying stock price. Costs associated with being a public company increased approximately \$0.7 million due to additional SEC financial reporting, corporate governance, audit and listing fees, including the Company's up-listing to the NYSE:MKT and raising additional capital through a public offering during the nine months ended December 31, 2013. Lab supplies, equipment and contracted services increased \$0.9 million due to an increase in ongoing research activities as well as increased investment in developing enhancements to the Company's Bioprinting technology.

Research and Development Expenses

For the nine months ended December 31, 2013, research and development expenses increased by approximately \$2.5 million or 86% over the same period in 2012, as the Company significantly increased its research staff to support its obligations under certain collaborative research agreements and to expand product development efforts in preparation for research-derived revenues. Full-time research and development staffing increased from nineteen full-time employees as of December 31, 2012 to twenty-six full-time employees as of December 31, 2013. In addition to the \$0.8 million in incremental payroll and benefits resulting from increased staffing levels, the Company increased its spending on lab equipment, supplies and contracted services in proportion to its increased research activities. In addition, the Company has invested additional resources to advance its Bioprinting technology during the period.

General and Administrative Expenses

For the nine months ended December 31, 2013, general and administrative expenses were approximately \$8.8 million, an increase of \$2.6 million or 42% over expenses in the same period of 2012 of approximately \$6.2 million. Increased staffing expense of \$0.7 million was due to the headcount increase from ten full-time employees to thirteen full-time employees to provide strategic infrastructure in developing collaborative relationships and preparation for commercialization of research-derived product

introductions. In addition, the nine months ended December 31, 2013 included \$0.7 million more in payroll taxes related to the vesting of restricted stock units the Company previously granted to certain of its executives. Stock-based compensation costs also increased \$1.3 million due to the increase in grants for new staff, common stock granted to consultants and the increase in expense due to the fair value increases that have risen with the underlying stock price. The remainder of the increase in general and administrative expense is primarily due to additional SEC financial reporting, corporate governance, audit and listing fees, including the Company up-listing to the NYSE:MKT and raising additional capital through a public offering during the nine months ended December 31, 2013.

Other Income (Expense)

The approximate \$6.9 million decrease in other income (expense) for the nine month period ending December 31, 2013 compared to the same period of the prior year, was primarily related to the change in fair value of the warrants issued in our 2012 Private Placement. During the first quarter of calendar 2012, the Company issued warrants to purchase 6,099,195 shares of its common stock to the placement agent and warrants to purchase 15,247,987 shares of our common stock to investors in the Private Placement. The warrants issued to the placement agent and Private Placement investors were determined to be derivative liabilities as a result of the anti-dilution provisions in the warrant agreements that may result in an adjustment to the warrant exercise price. As a result of decreasing stock prices during the nine months ended December 31, 2012, the fair value of the derivative liability decreased by \$3.6 million, which was recorded as other income. As a result of increasing stock prices during the nine months ended December 31, 2013, the fair value of the derivative liability increased by \$5.4 million, resulting in a charge to other expense. The majority of the underlying warrants have been exercised prior to December 31, 2013 or modified and reclassified as equity instruments. The Company will continue to revalue the derivative liability at each balance sheet date until the securities to which the derivative liabilities relate are exercised or expire. In addition, the Company completed a warrant tender offer in December 2012 to amend certain of its warrants to include a reduction of the exercise price of the warrants from \$1.00 per share to \$0.80 per share of common stock. In connection with the transaction, the Company recognized an expense for the inducement to exercise the warrants of approximately \$1.9 million during the nine months ended December 31, 2012. Finally, the Company disposed of property, plant and equipment during the nine months ended December 31, 2012, resulting in a loss on disposal of \$0.2 million, while there were no significant disposals during the nine months ended December 31, 2013.

Financial Condition, Liquidity and Capital Resources

Since its inception, the Company has primarily devoted its efforts to research and development, business planning, raising capital, recruiting management and technical staff, and acquiring operating assets. Accordingly, the Company is considered to be in the development stage.

Since inception, the Company incurred negative cash flows from operations. As of December 31, 2013, the Company had cash and cash equivalents of approximately \$49.8 million and an accumulated deficit of \$85.7 million. The Company also had negative cash flow from operations of \$10.2 million during the nine months ended December 31, 2013. At March 31, 2013, the Company had cash and cash equivalents of approximately \$15.6 million and an accumulated deficit of \$66.4 million.

At December 31, 2013, the Company had total current assets of approximately \$50.5 million and current liabilities of approximately \$2.9 million, resulting in working capital of \$47.6 million. At March 31, 2013, we had total current assets of approximately \$16.1 million and current liabilities of approximately \$8.4 million, resulting in working capital of \$7.7 million.

Net cash used by operating activities for the nine months ended December 31, 2013 was approximately \$10.2 million as compared to \$6.1 million used in operating activities for the nine months ended December 31, 2012. This \$4.1 million increase in cash usage can be attributed to a \$0.8 million decrease in revenue and a \$5.2 million increase in

operating expenses, partially offset by an overall increase of \$1.1 million of non-cash expenses included in operations, including share-based compensation, depreciation and amortization, and a \$0.8 million decrease in working capital.

Net cash used in investing activities was approximately \$0.1 million and \$0.4 million for the nine months ended December 31, 2013 and December 31, 2012, respectively.

Net cash provided by financing activities increased from approximately \$11.0 million provided during the nine months ended December 31, 2012 to \$44.5 million provided during the nine months ended December 31, 2013. This increase was primarily due to the inclusion of \$43.4 million in net proceeds from the issuance of common stock in the nine months ended December 31, 2013.

We believe our cash and cash equivalents on hand as of December 31, 2013, together with amounts to be received from our collaborative research agreements, should be sufficient to fund our ongoing operations as currently planned for at least the next twelve months. Through December 31, 2013, we have financed our operations primarily through the sale of convertible notes, the private placement of equity securities, the sale of common stock through a public offering, and from revenue derived from grants or collaborative research agreements.

We cannot predict with certainty when, if ever, we will require additional capital to further fund the product development and commercialization of our human tissues that can be employed in drug discovery and development, biological research, and as therapeutic implants for the treatment of damaged or degenerating tissues and organs. We intend to cover our future operating expenses through cash on hand, and from revenue derived from grants and collaborative research agreements. However, we cannot provide assurance that we will not require additional funding in the future. In addition, we cannot be sure that additional financing will be available if and when needed, or that, if available, financing will be obtained on terms favorable to us and our stockholders.

Having insufficient funds may require us to delay, scale back, or eliminate some or all of our development programs or relinquish rights to our technology on less favorable terms than we would otherwise choose. Failure to obtain adequate financing could eventually adversely affect our ability to operate as a going concern.

As of December 31, 2013, the Company had 77,424,956 total issued and outstanding shares of Common Stock, and five year warrants for the opportunity to purchase an additional 1,203,656 shares of Common Stock at exercise prices between \$0.85 and \$1.00 per share and 313,870 warrants with terms between two and five years and exercise prices between \$2.21 and \$7.36 per share. If all warrants were exercised on a cash basis, the Company would realize approximately \$2.4 million additional gross proceeds.

In addition, in November 2013, the Company entered into an equity distribution agreement with an investment banking firm. Under the terms of the distribution agreement, the Company may offer and sell up to 4,000,000 shares of its common stock, from time to time, through the investment bank in at the market offerings, as defined by the SEC, and pursuant to the Company's effective shelf registration statement previously filed with the SEC. As of the three months ended December 31, 2013, the Company had not sold any shares under the distribution agreement.

The 2008 Equity Incentive Plan provides for the issuance of up to 896,256 shares of our outstanding Common Stock and the 2012 Equity Incentive Plan, as amended, provides for the issuance of up to 11,553,986 shares, or approximately 16% of our outstanding Common Stock, to executive officers, directors, advisory board members, employees and consultants. In aggregate, issued and outstanding common stock, shares underlying outstanding warrants, and shares reserved for the 2008 and 2012 incentive plans total 89,195,246 shares of common stock as of December 31, 2013.

Off-Balance Sheet Arrangements

We have no off-balance sheet arrangements, including unrecorded derivative instruments that have or are reasonably likely to have a current or future material effect on our financial condition, changes in financial condition, revenues or expenses, results of operations, liquidity, capital expenditures or capital resources. We have certain warrants and options outstanding but we do not expect to receive sufficient proceeds from the exercise of these instruments unless and until the underlying securities are registered, and/or all restrictions on trading, if any, are removed, and in either case the trading price of our Common Stock is significantly greater than the applicable exercise prices of the options and warrants.

Effect of Inflation and Changes in Prices

Management does not believe that inflation and changes in price will have a material effect on the Company's operations.

Item 3. Quantitative and Qualitative Disclosures About Market Risk

The primary objective of our investment activities is to preserve our capital for the purpose of funding our operations. To achieve these objectives, our investment policy allows us to maintain a portfolio of cash, cash equivalents, and short-term investments in a variety of securities, including commercial paper and money market funds. Our primary exposure to market risk is interest income sensitivity, which is affected by changes in the general level of U.S. interest rates, particularly because the majority of our investments are comprised of cash and cash equivalents. We currently do not hedge interest rate exposure. Due to the nature of our short-term investments, we believe that we are not subject to any material market risk exposure. We have limited foreign currency risk exposure as our business operates primarily in U.S. dollars. We do not have any foreign currency or other derivative financial instruments.

Item 4. Controls and Procedures
Disclosure Controls and Procedures

Our management, with the participation of our Chief Executive Officer and Chief Financial Officer, evaluated the effectiveness of our disclosure controls and procedures (as defined in Rule 13a-15(e) of the Exchange Act) as of the end of the period covered by this report. Based on that evaluation, our Chief Executive Officer and Chief Financial Officer concluded that our disclosure controls and procedures as of the end of the quarterly period covered by this report were effective in ensuring that information required to be disclosed by us in reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms and that the information required to be disclosed by us in such reports is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosure.

Internal Control over Financial Reporting

There was no change in our internal control over financial reporting (as defined in Rule 13a-15(f) of the Exchange Act) that occurred during the fiscal quarter to which this report relates that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

Inherent Limitations on Effectiveness of Controls

Our management, including our Chief Executive Officer and our Chief Financial Officer, do not expect that our disclosure controls or our internal control over financial reporting will prevent or detect all error and all fraud. A control system, no matter how well designed and operated, can provide only reasonable, not absolute, assurance that the control system's objectives will be met. The design of a control system must reflect the fact that there are resource constraints, and the benefits of controls must be considered relative to their costs. Further, because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that misstatements due to error or fraud will not occur or that all control issues and instances of fraud, if any, have been detected. These inherent limitations include the realities that judgments in decision-making can be faulty and that breakdowns can occur because of simple error or mistake. Controls can also be circumvented by the individual acts of some persons, by collusion of two or more people, or by management override of the controls. The design of any system of controls is based in part on certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions. Projections of any evaluation of controls effectiveness to future periods are subject to risks. Over time, controls may become inadequate because of changes in conditions or deterioration in the degree of compliance with policies or procedures.

PART II OTHER INFORMATION

Item 1. LEGAL PROCEEDINGS

See Note 5 of the Notes to the Unaudited Condensed Consolidated Financial Statements within this December 31, 2013 Form 10-Q for a further discussion of our legal proceedings.

Item 1A. RISK FACTORS

In evaluating us and our common stock, we urge you to carefully consider the risks and other information in this Quarterly Report on Form 10-Q, as well as the risk factors disclosed in the Company's Transition Report on Form 10-KT for the transition period ended March 31, 2013, filed with the Securities and Exchange Commission (the "SEC") on May 24, 2013. There have been no material changes from the risk factors as previously disclosed in our Transition Report. Any of the risks discussed in this Quarterly Report on Form 10-Q or any of the risks disclosed in our Form 10-KT, as well as additional risks and uncertainties not currently known to us or that we currently deem immaterial, could materially and adversely affect our results of operations or financial condition.

Item 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS

None.

Item 3. DEFAULTS UPON SENIOR SECURITIES

None.

Item 4. MINE SAFETY DISCLOSURE

Not applicable.

Item 5. OTHER INFORMATION

On February 3, 2014, the Company's Board of Directors (the "Board"), based on a recommendation from the Compensation Committee, approved an amendment to the 2012 Equity Incentive Plan ("Amendment No. 1") to provide for accelerated vesting of outstanding equity awards if the employee ceases to be a service provider to the Company as a result of the employee's death or disability. Amendment No. 1 applies to all outstanding equity awards held by the Company's employees, including its executive officers, and will apply to all future equity awards issued to the Company's employees, unless the Board or the Compensation Committee determine otherwise. In order for an equity award to be eligible for accelerated vesting, the employee's death or disability must occur more than 90 days after the date the equity award is issued to that employee. With respect to performance based equity awards, an employee will vest at target levels upon the employee's death or disability.

Amendment No. 1 is filed as Exhibit 10.3 to this Quarterly Report on Form 10-Q and is incorporated herein by reference. The foregoing description of Amendment No. 1 is qualified in its entirety by reference to Exhibit 10.3.

Item 6. EXHIBITS**(a) Exhibits:**

The following exhibit index shows those exhibits filed with this report and those incorporated herein by reference:

| Exhibit No. | Description |
|--------------------|--|
| 2.1 | Agreement and Plan of Merger and Reorganization, dated as of February 8, 2012, by and among Organovo Holdings, Inc. a Delaware corporation, Organovo Acquisition Corp., a Delaware corporation and Organovo, Inc., a Delaware corporation (incorporated by reference from Exhibit 2.1 to the Company's Current Report on Form 8-K, as filed with the SEC on February 13, 2012) |
| 2.2 | Certificate of Merger as filed with the Delaware Secretary of State effective February 8, 2012 (incorporated by reference from Exhibit 2.2 to the Company's Current Report on Form 8-K, as filed with the SEC on February 13, 2012) |
| 2.3 | Articles of Merger as filed with the Nevada Secretary of State effective December 28, 2011 (incorporated by reference from Exhibit 2.1 to the Company's Current Report on Form 8-K, as filed with the Securities and Exchange Commission (the "SEC") on February 3, 2012 (the "February 2012 Form 8-K")) |
| 2.4 | Agreement and Plan of Merger, dated as of December 28, 2011, by and between Real Estate Restoration and Rental, Inc. and Organovo Holdings, Inc. (incorporated by reference from Exhibit 2.2 to the Company's Current Report on Form 8-K, as filed with the SEC on January 4, 2012) |
| 2.5 | Certificate of Merger as filed with the Delaware Secretary of State effective January 30, 2012 (incorporated by reference from Exhibit 2.3 to the February 2012 Form 8-K) |
| 2.6 | Agreement and Plan of Merger, dated as of January 30, 2012, by and between Organovo Holdings, Inc. (Nevada) and Organovo Holdings, Inc. (Delaware) (incorporated by reference from Exhibit 2.2 to the February 2012 Form 8-K) |
| 2.7 | Articles of Merger as filed with the Nevada Secretary of State effective January 30, 2012 (incorporated by reference from Exhibit 2.4 to the February 2012 Form 8-K) |
| 3.1 | Certificate of Incorporation of Organovo Holdings, Inc. (Delaware) (incorporated by reference from Exhibit 3.1 to the February 2012 Form 8-K) |
| 3.2 | Bylaws of Organovo Holdings, Inc. (Delaware) (incorporated by reference from Exhibit 3.2 to the February 2012 Form 8-K) |
| 4.1 | Form of Bridge Warrant of Organovo, Inc. (incorporated by reference from Exhibit 4.1 to the Company's Current Report on Form 8-K, as filed with the SEC on February 13, 2012) |
| 4.2 | Form of Bridge Promissory Note of Organovo, Inc. (incorporated by reference from Exhibit 4.2 to the Company's Current Report on Form 8-K, as filed with the SEC on February 13, 2012) |
| 4.3 | Form of Warrant of Organovo, Inc. issued to former holders of Organovo, Inc. promissory notes (incorporated by reference from Exhibit 4.3 to the Company's Current Report on Form 8-K, as filed with the SEC on February 13, 2012) |
| 4.4 | Form of Investor Warrant of Organovo Holdings, Inc. (incorporated by reference from Exhibit 4.4 to the Company's Current Report on Form 8-K, as filed with the SEC on February 13, 2012) |
| 4.5 | |

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- Form of Warrant of Organovo Holdings, Inc. (\$1.00 exercise price) issued to Placement Agent (incorporated by reference from Exhibit 4.2(i) to the Company's Current Report on Form 8-K, as filed with the SEC on March 19, 2012)
- 4.6 Form of Warrant of Organovo, Inc. (\$1.00 exercise price) issued to Selling Agent (incorporated by reference from Exhibit 4.2(ii) to the Company's Current Report on Form 8-K, as filed with the SEC on March 19, 2012)
- 4.7 Form of Warrant of Organovo Holdings, Inc. (\$1.00 exercise price) issued to Placement Agent in exchange for Organovo, Inc. warrant issued to Selling Agent (incorporated by reference from Exhibit 4.2(iii) to the Company's Current Report on Form 8-K, as filed with the SEC on March 19, 2012)
- 4.8 Form of Warrant of Organovo Holdings, Inc. issued to former holders of Organovo, Inc. promissory notes (incorporated by reference from Exhibit 4.5 to the Company's Current Report on Form 8-K, as filed with the SEC on February 13, 2012)
- 4.9 Form of New Bridge Warrant (incorporated by reference from Exhibit 4.6 to the Company's Current Report on Form 8-K, as filed with the SEC on February 13, 2012)
- 10.1 Equity Distribution Agreement, dated November 27, 2013, between Organovo Holdings, Inc. and JMP Securities LLC. (incorporated by reference from Exhibit 10.1 to the Company's Current Report on Form 8-K, as filed with the SEC on November 27, 2013)

| Exhibit No. | Description |
|--------------------|---|
| 10.2 | First Amendment to Lease, dated December 4, 2013, by and between Organovo, Inc. and ARE-SD Region No. 25, LLC.* |
| 10.3 | Amendment No. 2 to the 2012 Equity Incentive Plan, effective as of February 3, 2014.* |
| 10.4 | Form of Executive Incentive Award Agreement under the 2012 Equity Incentive Plan.* |
| 10.5 | Forms of Executive Restricted Stock Unit Grant Notice and Restricted Stock Unit Agreement under the 2012 Equity Incentive Plan.* |
| 10.6 | Forms of Performance Based Restricted Stock Grant Notice and Performance Based Restricted Stock Unit Agreement under the 2012 Equity Incentive Plan.* |
| 31.1 | Certification of Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.* |
| 31.2 | Certification of Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.* |
| 32.1 | Certifications pursuant to 18 U.S.C. Section 1350.* |
| 101 | Interactive Data File* |

* Filed herewith.

XBRL (Extensible Business Reporting Language) information included herewith is furnished and not filed or a part of a registration statement or prospectus for purposes of Sections 11 or 12 of the Securities Act of 1933, as amended, is deemed not filed for purposes of Section 18 of the Securities and Exchange Act of 1934, as amended, and otherwise is not subject to liability under those sections.

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.

ORGANOVO HOLDINGS, INC.

Date: February 6, 2014

By: /s/ Keith Murphy

Name: Keith Murphy

*Title: Chairman, Chief Executive Officer and President
(Principal Executive Officer)*

/s/ Barry Michaels

Name: Barry Michaels

*Title: Chief Financial Officer and Secretary
(Principal Financial and Accounting Officer)*