
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 March 31, 2012.

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: 000-52089

InVivo Therapeutics Holdings Corp.

(Exact name of registrant as specified in its charter)

Nevada
(State or other jurisdiction of
incorporation or organization)

One Broadway, 14th Floor,
Cambridge MA
(Address of principal executive offices)

36-4528166
(I.R.S. Employer
Identification Number)

02142
(Zip code)

(617) 475-1520
(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.

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

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 May 8, 2012, 63,964,435 shares of the registrant's Common Stock. \$0.00001 par value, were issued and outstanding.

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INVIVO THERAPEUTICS HOLDINGS CORP.
Quarterly report on Form 10-Q for the period ended March 31, 2012

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PART I – FINANCIAL INFORMATION
Item 1. Financial Statements.

InVivo Therapeutics Holdings Corp.
(A Developmental Stage Company)
Consolidated Balance Sheets

	As of	
	March 31, 2012 Unaudited	December 31, 2011
ASSETS:		
Current assets:		
Cash and cash equivalents	\$ 19,605,096	\$ 4,363,712
Restricted cash	862,908	547,883
Prepaid expenses	276,263	104,022
Total current assets	20,744,267	5,015,617
Property and equipment, net	523,702	520,482
Other assets	161,764	166,139
Total assets	<u>\$ 21,429,733</u>	<u>\$ 5,702,238</u>
LIABILITIES AND STOCKHOLDERS' DEFICIT:		
Current liabilities:		
Accounts payable	\$ 535,679	\$ 567,195
Loan payable-current portion	50,578	50,578
Capital lease payable-current portion	31,291	30,724
Derivative warrant liability	29,000,940	35,473,230
Accrued expenses	170,078	618,369
Total current liabilities	29,788,566	36,740,096
Loan payable-less current portion	71,149	83,794
Capital lease payable-less current portion	27,421	38,042
Total liabilities	29,887,136	36,861,932
Commitments		
Stockholders' deficit:		
Common stock, \$0.00001 par value, authorized 200,000,000 shares at March 31, 2012 and December 31, 2011; issued and outstanding 63,928,372 and 53,760,471 shares at March 31, 2012 and December 31, 2011, respectively.	639	538
Additional paid-in capital	36,209,148	16,656,830
Deficit accumulated during the development stage	(44,667,190)	(47,817,062)
Total stockholders' deficit	(8,457,403)	(31,159,694)
Total liabilities and stockholders' deficit	<u>\$ 21,429,733</u>	<u>\$ 5,702,238</u>

See notes to the consolidated financial statements.

InVivo Therapeutics Holdings Corp.
(A Developmental Stage Company)
Consolidated Statements of Operations
(Unaudited)

	Three Months Ended March 31,		November 28, 2005 (inception) to March 31, 2012
	2012	2011	
Operating expenses:			
Research and development	\$ 940,553	\$ 636,323	\$ 9,824,387
General and administrative	1,520,212	764,319	9,771,749
Total operating expenses	2,460,765	1,400,642	19,596,136
Operating loss	(2,460,765)	(1,400,642)	(19,596,136)
Other income (expense):			
Other income	—	—	383,000
Interest income	2,437	2,818	22,486
Interest expense	(5,006)	(1,513)	(1,071,337)
Derivatives gain (loss)	5,613,206	121,347	(24,404,955)
Other income (expense), net	5,610,637	122,652	(25,070,806)
Net income (loss)	\$ 3,149,872	\$ (1,277,990)	\$ (44,666,942)
Net income (loss) per share, basic	\$ 0.05	\$ (0.02)	\$ (1.40)
Net income (loss) per share, diluted	\$ 0.05	\$ (0.02)	\$ (1.40)
Weighted average number of common shares outstanding, basic	58,004,471	51,660,942	31,831,475
Weighted average number of common shares outstanding, diluted	69,008,549	51,660,942	31,831,475

See notes to the consolidated financial statements.

InVivo Therapeutics Holdings Corp.
(A Developmental Stage Company)
Consolidated Statements of Cash Flows
(Unaudited)

	Three Months Ended March 31,		Period from November 28, 2005 (inception) to March 31, 2012
	2012	2011	2012
Cash flows from operating activities:			
Net income (loss)	\$ 3,149,872	\$(1,277,990)	\$(44,666,942)
Adjustments to reconcile net income (loss) to net cash used in operating activities:			
Depreciation and amortization expense	42,570	27,979	280,197
Non-cash derivatives (gain) loss	(5,613,206)	(121,347)	24,404,955
Non-cash interest expense	—	—	962,834
Common stock issued to 401(k) plan	—	—	41,662
Common stock issued for services	(11,700)	—	197,751
Share-based compensation expense	237,542	107,319	2,037,894
Changes in operating assets and liabilities:			—
Restricted cash	(315,025)	(105,000)	(862,908)
Prepaid expenses	(172,241)	(380,823)	(266,212)
Other assets	—	—	(200,000)
Accounts payable	(31,516)	(42,909)	535,679
Accrued interest payable	—	—	(15,256)
Accrued expenses	(448,291)	(150,522)	170,078
Net cash used in operating activities	<u>(3,161,995)</u>	<u>(1,943,293)</u>	<u>(17,380,268)</u>
Cash flows from investing activities:			
Purchases of property and equipment	(41,415)	(153,574)	(672,123)
Net cash used in investing activities	<u>(41,415)</u>	<u>(153,574)</u>	<u>(672,123)</u>
Cash flows from financing activities:			
Proceeds from issuance of convertible notes payable	—	—	4,181,000
Proceeds from convertible bridge notes	—	—	500,000
Principle payments on capital lease obligation	(10,054)	(5,208)	(34,828)
(Repayment of) proceeds from loans payable	(12,645)	—	121,727
Proceeds from issuance of common stock and warrants, net	18,467,493	1,999	32,889,588
Net cash provided by (used in) financing activities	<u>18,444,794</u>	<u>(3,209)</u>	<u>37,657,487</u>
Increase (decrease) in cash and cash equivalents	15,241,384	(2,100,076)	19,605,096
Cash and cash equivalents at beginning of period	4,363,712	8,964,194	—
Cash and cash equivalents at end of period	<u>\$ 19,605,096</u>	<u>\$ 6,864,118</u>	<u>\$ 19,605,096</u>

(continued)

See notes to the consolidated financial statements.

InVivo Therapeutics Holdings Corp.
(A Developmental Stage Company)
Consolidated Statements of Cash Flows (Concluded)
(Unaudited)

	Three Months Ended March 31,		Period from November 28, 2005 (inception) to March 31, 2012
	2012	2011	
Supplemental disclosure of cash flow information and non-cash transactions:			
Cash paid for interest	\$ 3,415	\$ 416	\$ 109,462
Conversion of convertible notes payable and accrued interest into common stock	\$ —	\$ —	\$4,672,484
Conversion of convertible bridge note payable and accrued interest into common stock	\$ —	\$ —	\$ 504,597
Asset acquired through capital lease obligation	\$ —	\$93,540	\$ 93,540
Beneficial conversion feature on convertible and bridge notes payable	\$ —	\$ —	\$ 134,410
Fair value of warrants issued with bridge notes payable	\$ —	\$ —	\$ 178,726
Fair value of warrants issued in connection with loan agreement	\$ —	\$ —	\$ 10,051
Issuance of founders shares	\$ —	\$ —	\$ 248
Reclassification of derivative warrant liability to additional paid-in capital	\$859,084	\$ —	\$2,098,623

See notes to the consolidated financial statements.

InVivo Therapeutics Holdings Corp.
(A Development Stage Company)
Notes to Consolidated Financial Statements
Period Ended March 31, 2012 (Unaudited)

1. NATURE OF OPERATIONS AND BASIS OF PRESENTATION

Business

InVivo Therapeutics Corporation (“InVivo”) was incorporated on November 28, 2005 under the laws of the State of Delaware. InVivo is developing and commercializing biopolymer scaffolding devices for the treatment of spinal cord injuries and peripheral nerve injuries. In spinal cord injuries, the biopolymer devices are designed to protect the damaged spinal cord from further secondary injury and promote neuroplasticity, a process where functional recovery can occur through the rerouting of signaling pathways to the spared healthy tissue.

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

Reverse Merger

On October 26, 2010, InVivo completed a reverse merger transaction (the “Merger”) with InVivo Therapeutics Holdings Corporation (formerly Design Source, Inc.) (“ITHC”), a publicly traded company incorporated under the laws of the State of Nevada. InVivo became a wholly owned subsidiary of ITHC, which continues to operate the business of InVivo. As part of the Merger, ITHC issued 31,147,190 shares of its Common Stock to the holders of InVivo common stock on October 26, 2011 in exchange for the 2,261,862 outstanding common shares of InVivo and also issued 500,000 shares to its legal counsel in consideration for legal services provided. All share and per share amounts presented in these consolidated financial statements have been retroactively restated to reflect the 13.7706 exchange ratio of InVivo shares for ITHC shares in the Merger. Immediately prior to the Merger, ITHC had 6,999,981 shares of Common Stock outstanding.

The Merger was accounted for as a “reverse merger,” and InVivo is deemed to be the accounting acquirer. The Merger was recorded as a reverse recapitalization, equivalent to the issuance of common stock by InVivo for the net monetary assets of ITHC accompanied by a recapitalization. At the date of the Merger, the 6,999,981 outstanding ITHC shares were reflected as an issuance of InVivo common stock to the prior shareholders of ITHC. ITHC had no net monetary assets as of the Merger so this issuance was recorded as a reclassification between additional paid-in capital and par value of Common Stock.

The historical consolidated financial statements are those of InVivo as the accounting acquirer. The post-merger combination of ITHC and InVivo is referred to throughout these notes to consolidated financial statements as the “Company.” Subsequent to the Merger, the Company completed three closings as part of a private placement.

On October 26, 2010, in connection with the Merger described above, ITHC transferred all of its operating assets and liabilities to its wholly-owned subsidiary, D Source Split Corp., a company organized under the laws of Nevada (“DSSC”). DSSC was then split-off from ITHC through the sale of all outstanding shares of DSSC (the “Split-Off”). The assets and liabilities of ITHC were transferred to the Split-Off Shareholders in the Split-Off. ITHC executed a split off agreement with the Split-Off Shareholders which obligates the Split-Off Shareholders to assume all prior liabilities associated with Design Source, Inc. and all DSSC liabilities. In conjunction with the Split-Off, certain shareholders of ITHC surrendered for cancellation shares of ITHC common stock for no additional consideration. The purpose of the Split-Off was to make ITHC a shell company with no assets or liabilities in order to facilitate the Merger. Although all transactions related to the Merger occurred simultaneously, the Split-Off, including the cancellation of shares, was considered to have occurred immediately prior to the Merger for accounting purposes. As the accounting acquiree in a reverse merger with a shell company, the historical financial statements of ITHC are not presented and these ITHC transactions are not reflected in the Company’s accompanying consolidated financial statements.

Basis of Presentation

The accompanying unaudited consolidated financial statements have been prepared in conformity with generally accepted accounting principles in the United States (“GAAP”) consistent with those applied in, and should be read in conjunction with, the Company’s audited financial statements and related footnotes for the year ended December 31, 2011 included in the Company’s Annual Report on Form 10-K as filed with the United States Securities and Exchange Commission (“SEC”) on March 15, 2012. The unaudited consolidated financial statements reflect all adjustments, consisting only of normal recurring adjustments, which are, in the opinion of management, necessary for a fair presentation of the Company’s financial position as of March 31, 2012 and its results of operations and cash flows for the interim periods presented and are not necessarily indicative of results for subsequent interim periods or for the full year. The interim financial statements do not include all of the information and footnotes required by GAAP for complete financial statements as allowed by the relevant SEC rules and regulations; however, the Company believes that its disclosures are adequate to ensure that the information presented is not misleading.

2. CASH AND CASH EQUIVALENTS

As of March 31, 2012, the Company held \$19.6 million in cash and cash equivalents. From time to time, the Company may have cash balances in financial institutions in excess of insurance limits. The Company has never experienced any losses related to these balances. All of the Company’s non-interest bearing cash balances were fully insured at March 31, 2012 due to a temporary federal program through December 31, 2012. Under the program, there is no limit on the amount of insurance for eligible accounts. Beginning in 2013, insurance coverage will revert to \$250,000 per depositor at each financial institution, and non-interest bearing cash balances may again exceed federally insured limits. The Company’s cash equivalents are in money market funds and certificates of deposit. Cash and cash equivalents consist of the following:

	March 31, 2012	December 31, 2011
Cash on hand	\$ 233,839	\$ 133,035
Money market fund	2,371,257	4,230,677
Certificates of deposit:		
Maturing in April 2012	7,000,000	—
Maturing in June 2012	5,000,000	—
Maturing in September 2012	5,000,000	—
	<u>17,000,000</u>	<u>—</u>
Total cash and cash equivalents	<u>\$19,605,096</u>	<u>\$4,363,712</u>

3. RESTRICTED CASH

Restricted cash of \$863,000 represents \$420,000 of security deposits related to the Company’s credit card accounts, a \$50,000 minimum balance in a checking account that is required as part of a loan agreement, and a \$393,000 cash account securing a standby letter of credit in favor of a landlord (see Note 5). This letter of credit expires December 22, 2012 and may be extended through July 31, 2023.

4. FAIR VALUE OF ASSETS AND LIABILITIES

The Company groups its assets and liabilities generally measured at fair value in three levels, based on the markets in which the assets and liabilities are traded and the reliability of the assumptions used to determine fair value.

Level 1 – Valuation is based on quoted prices in active markets for identical assets or liabilities. Level 1 assets and liabilities generally include debt and equity securities that are traded in an active exchange market. Valuations are obtained from readily available pricing sources for market transactions involving identical assets or liabilities.

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Level 2 – Valuation is based on observable inputs other than Level 1 prices, 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 – Valuation is based on unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities. Level 3 assets and liabilities include financial instruments whose value is determined using pricing models, discounted cash flow methodologies, or similar techniques, as well as instruments for which the determination of fair value requires significant management judgment or estimation.

The Company uses valuation methods and assumptions that consider among other factors the fair value of the underlying stock, risk-free interest rate, volatility, expected life and dividend rates in estimating fair value for the warrants considered to be derivative instruments.

Assets and liabilities measured at fair value on a recurring basis are summarized below:

		March 31, 2012			
		Level 1	Level 2	Level 3	Fair Value
Liabilities:					
Derivative warrant liability		\$ —	\$29,000,940	\$ —	\$29,000,940
		December 31, 2011			
		Level 1	Level 2	Level 3	Fair Value
Liabilities:					
Derivative warrant liability		\$ —	\$35,473,230	\$ —	\$35,473,230

5. COMMITMENTS

Operating Lease Commitment

The Company leases approximately 1,597 square feet of laboratory and office space in Medford, Massachusetts at a monthly cost of \$5,476 under a lease expiring on November 15, 2012.

On November 29, 2011, the Company entered into a commercial lease for 20,917 square feet of office, laboratory and manufacturing space in Cambridge, MA. The term of this lease is six years and three months, with one five-year extension option.

The terms of this lease required a standby letter of credit in the amount of \$392,883 secured by a deposit with a commercial bank (see Note 3). Pursuant to the terms of the non-cancelable lease agreements in effect at March 31, 2012, future minimum rent commitments are as follows:

<u>Year Ended December 31,</u>	
2012	\$ 421,826
2013	929,935
2014	950,852
2015	971,737
2016	992,648
Thereafter	1,825,008
Total	<u>\$ 6,092,006</u>

Total rent expense for the three months ended March 31, 2012 and 2011, including month-to-month leases, was \$101,236 and \$81,000, respectively.

Other Commitments

In January 2012, the Company entered into a research contract with the Geisenger Health System under which the Company is obligated to pay Geisenger \$150,000 for a pre-clinical study that will evaluate the Company's hydrogel for the treatment of peripheral nerve injuries. During the first quarter of 2012, the Company made an up-front payment of \$60,000 for this study and expensed \$10,000 of this to Research and Development.

6. CAPITAL LEASE PAYABLE

In February 2011, the Company entered into a capital lease agreement under which the Company leased certain laboratory equipment. Capital lease obligations consisted of the following:

	March 31, 2012	December 31, 2011
Capital lease payable	\$ 58,712	\$ 68,766
Less:current portion	(31,291)	(30,724)
	<u>\$ 27,421</u>	<u>\$ 38,042</u>

The total value of the laboratory equipment acquired under this capital lease agreement was \$124,151 including a down payment of approximately \$31,000. The capital lease is payable in monthly installments of \$2,812 payable over thirty six months with the final payment due in January 2014. For the three months ended March 31, 2012 and 2011, interest expense recorded on the capital lease was \$1,192 and \$843, respectively. Depreciation expense for the three months ended March 31, 2012 and 2011 was \$6,207 and \$4,138, respectively, and the net book value at March 31, 2012 amounted to \$95,182.

7. LOAN PAYABLE

In June 2011, the Company entered into a loan agreement with a bank. The loan agreement provides the Company with a \$1,000,000 line of credit for the purchase of capital equipment. The line is available to the Company until December 31, 2012. The annual interest rate is the greater of 6.75% or 3.50% above the Prime Rate. Borrowings are repayable in equal monthly installments over a thirty six month period. The Company was assessed commitment fees totaling \$10,000 and issued the bank a warrant for the purchase of 16,071 shares of Common Stock. The warrant has a seven year term and is exercisable at \$1.40 per share. The fair value of the warrant was determined to be approximately \$10,000 and was recorded as a deferred financing cost that will be amortized to interest expense over a three year period commencing from the date of the first draw from the equipment line of credit. Amortization of the deferred financing costs for the three months ended March 31, 2012 was \$2,073 and is included in interest expense. As of March 31, 2012, advances under the equipment line of credit totaled \$121,727. The equipment line of credit is secured by substantially all the assets of the Company excluding intellectual property. In accordance with the agreement, the Company is required to maintain its primary banking and investments accounts with the commercial bank and a deposit of not less than \$50,000 at the bank. Loan payable consisted of the following:

	March 31, 2012	December 31, 2011
Equipment Loan	\$ 121,727	\$ 134,372
Less:current portion	(50,578)	(50,578)
	<u>\$ 71,149</u>	<u>\$ 83,794</u>

Interest expense related to the loan payable in the three months ended March 31, 2012 was \$2,239. Principal payments due for the remaining nine months of the year ending December 31, 2012 total \$37,933 and for the years ending December 31, 2013 and 2014 are \$50,578 and \$33,216, respectively.

8. COMMON STOCK

The Company has authorized 200,000,000 shares of Common Stock, \$0.00001 par value per share, of which 63,928,372, shares were issued and outstanding as of March 31, 2012 and 53,760,471 shares were issued and outstanding as of December 31, 2011.

In February 2012, the Company completed a public offering of Common Stock and issued 9,523,810 shares of Common Stock at a purchase price of \$2.10 per common share. The offering raised gross proceeds of \$20 million and the Company received net proceeds of \$18,155,000, after deducting underwriter discounts and offering expenses.

During the first quarter of 2012, the Company issued 281,691 shares of Common Stock upon the exercise of stock options and received cash proceeds of approximately \$20,500.

During the first quarter of 2012, the Company issued 362,400 shares of common stock upon the exercise of warrants, including warrants to purchase 266,123 shares of Common Stock exercised through cashless exercise provisions and warrants to purchase 220,000 shares of Common Stock exercised for cash, providing cash proceeds of \$292,000.

9. DERIVATIVE INSTRUMENTS

Certain warrants issued to the investors in the fourth quarter of 2010 have provisions that include anti-dilution protection and, under certain conditions, grant the right to the holder to request the Company to repurchase the warrant. Accordingly, these warrants are accounted for as a derivative liability on the consolidated balance sheet and measured at fair value. The Company uses the Black-Scholes option pricing model and assumptions that consider among other factors the fair value of the underlying stock, risk-free interest rate, volatility, expected life and dividend rates in estimating fair value for the warrants considered to be derivative instruments. The fair value of these derivative instruments at March 31, 2012 and December 31, 2011 was \$29,000,940 and \$35,472,230, respectively, and are included as a derivative warrant liability, a current liability. Changes in fair value of the derivative financial instruments are recognized currently in the Statement of Operations as a derivatives gain or loss. The warrant derivative gains or losses are non-cash items and for the three months ended March 31, 2012 and 2011 gains of \$5,613,206 and \$121,347, respectively, were included in other income in the consolidated statement of operations.

The assumptions used principally in determining the fair value of warrants were as follows:

	As of March 31, 2012
Risk-free interest rate	0.61%-0.67%
Expected dividend yield	0%
Expected term	3.42-3.68 years
Expected volatility	74.2%

The primary underlying risk exposure pertaining to the warrants is the change in fair value of the underlying Common Stock for each reporting period. The table below presents the changes in derivative warrant liability for the three months ended March 31, 2012 and 2011:

	Three Months Ended March 31,	
	2012	2011
Balance at December 31,	\$35,473,230	\$10,647,190
Decrease in the fair value of the warrants	(5,613,206)	(121,347)
Reduction in derivative liability due to exercise of warrants	(859,084)	—
Balance at March 31,	<u>\$29,000,940</u>	<u>\$10,525,843</u>

10. STOCK OPTIONS

In 2007, the Company adopted the 2007 Employee, Director and Consultant Stock Plan (the “2007 Plan”). Pursuant to the 2007 Plan, the Company’s Board of Directors (or committees and/or executive officers delegated by the Board of Directors) may grant incentive and nonqualified stock options to the Company’s employees, officers, directors, consultants and advisors. As of March 31, 2012, there were options to purchase an aggregate of 4,097,312 shares of Common Stock outstanding under the 2007 Plan and no shares available for future grants under the 2007 Plan.

On October 26, 2010, the Company’s Board of Directors adopted the 2010 Equity Incentive Plan, (the “2010 Plan”). The Company’s shareholders approved the 2010 Plan, as amended, on August 3, 2011. The 2010 Plan provides for grants of incentive stock options to employees and nonqualified stock options and restricted Common Stock to employees, consultants and non-employee directors of the Company. As of March 31, 2012, the number of shares authorized for issuance under the 2010 Plan was 3,500,000 shares. As of March 31, 2012, there were options to purchase an aggregate of 3,434,890 shares of Common Stock outstanding under the 2010 Plan and 65,110 shares available for future grants under the 2010 Plan. Options issued under the 2007 Plan and the 2010 Plan (collectively the “Plans”) are exercisable for up to 10 years from the date of issuance.

Share-based compensation

For stock options issued and outstanding for the three months ended March 31, 2012 and 2011, the Company recorded non-cash, stock-based compensation expense of \$237,542 and \$107,319, respectively, net of forfeitures.

The fair value of each option award is estimated on the date of grant using the Black-Scholes option pricing model that uses the assumptions noted in the following table. Due to its limited operating history and limited number of sales of its Common Stock, the Company estimated its volatility in consideration of a number of factors including the volatility of comparable public companies. The Company uses historical data, as well as subsequent events occurring prior to the issuance of the financial statements, to estimate option exercises and employee terminations within the valuation model. The expected term of options granted under the Plans, all of which qualify as “plain vanilla,” is based on the average of the contractual term (generally 10 years) and the vesting period (generally 48 months). For non-employee options, the expected term is the contractual term. The risk-free rate is based on the yield of a U.S. Treasury security with a term consistent with the option.

The assumptions used principally in determining the fair value of options granted to employees were as follows:

	March 31, 2012
Risk-free interest rate	1.07%-1.33%
Expected dividend yield	0%
Expected term (employee grants)	6.09
Expected volatility	73%

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A summary of option activity under the Plans and options granted to officers of the Company outside any plan as of March 31, 2012 and changes during the three months then ended is presented below:

Options	Shares	Weighted Average Exercise Price	Weighted Average Remaining Contractual Term in Years	Aggregate Intrinsic Value
Outstanding at December 31, 2011	6,302,893	\$ 0.76		
Granted	1,521,000	\$ 2.59		
Forfeited	(10,000)	\$ 0.85		
Exercised	(281,691)	\$ 0.07		
Outstanding at March 31, 2012	<u>7,532,202</u>	\$ 1.16	<u>7.97</u>	<u>\$10,168,671</u>
Vested at March 31, 2012	<u>3,250,485</u>	\$ 0.45	<u>6.40</u>	<u>\$ 6,598,517</u>

The weighted average grant-date fair value of options granted during three months ended March 31, 2012 was \$1.66 per share. The total fair value of options that vested in the three months ended March 31, 2012 was \$149,597. As of March 31, 2012, there was approximately \$4,018,768 of total unrecognized compensation expense, related to non-vested share-based compensation arrangements. The unrecognized compensation expense is estimated to be recognized over a period of 3.31 years at March 31, 2012.

In September 2011, the Company granted 80,000 shares of Common Stock under the 2010 Plan to a consultant as a restricted stock award with 30,000 shares vesting upon FDA clearance of an Investigational Device Exemption to permit the commencement of a human clinical trial and 50,000 shares vesting upon FDA approval of the Company's biopolymer scaffolding device to treat spinal cord injuries. The Company had previously determined that the vesting of the 30,000 shares was probable and the fair value of these shares at \$23,400 was being amortized over an eight month period from September 2011 through April 2012. In March of 2012, the contract with the consultant was terminated and the consultant had no vested right to the restricted stock, so accordingly, the \$11,700 of expense previously recorded was reversed.

11. WARRANTS

The following presents information about warrants to purchase Common Stock issued and outstanding at March 31, 2012:

Year Issued	Classification	Number of Warrants	Exercise Price	Date of Expiration
2010	Derivative	14,660,558	\$ 1.40	10/26/2015-12/3/2015
2010	Derivative	2,900,086	\$ 1.00	9/26/2015-12/3/2015
2011	Equity	16,071	\$ 1.40	6/17/2018
2011	Equity	343,137	\$ 3.06	12/21/2016
Total		<u>17,919,852</u>		
Weighted average exercise price			<u>\$ 1.42</u>	
Weighted average life in years				<u>3.9</u>

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 unaudited consolidated financial statements included in this report and with the Company's historical consolidated financial statements and the related notes thereto included in our Annual Report on Form 10-K for the year ended December 31, 2011 (the "2011 Annual Report"). The management's discussion and analysis contains forward-looking statements of our plans, objectives, expectations and intentions that involve risks and uncertainties, including those we detailed under "Risk Factors" in Item 1A of our 2011 Annual Report. 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 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.

The discussion and analysis of the Company's financial condition and results of operations are based on the Company's financial statements, which the Company has prepared in accordance with U.S. generally accepted accounting principles. The preparation of these financial statements requires the Company to make estimates and assumptions that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the financial statements, as well as the reported revenues and expenses during the reporting periods. On an ongoing basis, the Company evaluates such estimates and judgments, including those described in greater detail below. The Company bases its estimates on historical experience and on various other factors that the Company believes are reasonable under the circumstances, the results of which form the basis for making judgments about the carrying value of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions.

Overview

The Company is developing and commercializing biopolymer scaffolding devices for the treatment of spinal cord injuries and peripheral nerve injuries. For spinal cord injuries, the biopolymer devices are designed to protect the damaged spinal cord from further secondary injury and promote neuroplasticity, a process where functional recovery can occur through the rerouting of signaling pathways to the spared healthy tissue.

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

Critical Accounting Policies and Estimates

Our consolidated financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America. The preparation of these financial statements requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and the 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.

On an ongoing basis, we evaluate our estimates and judgments for all assets and liabilities, including those related to stock-based compensation expense and the fair value determined for stock purchase warrants classified as derivative liabilities. We base our estimates and judgments on historical experience, current economic and industry conditions and on various other factors that are believed to be reasonable under the circumstances. This forms the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions. There have been no changes in our critical accounting policies and estimates from our 2011 Annual Report.

We believe that full consideration has been given to all relevant circumstances that we may be subject to, and the consolidated financial statements accurately reflect our best estimate of the results of operations, financial position and cash flows for the periods presented.

Results of Operations

Comparison of the three months ended March 31, 2012 and 2011

Research and Development Expenses

Research and development expenses consist primarily of payments to contract research and development companies and payroll. Research and development expenses increased by approximately \$305,000 to approximately \$941,000 for the three months ended March 31, 2012 from approximately \$636,000 for the three months ended March 31, 2011. The increase in expenses is primarily attributable to increased compensation costs of approximately \$200,000 due to the hiring of additional personnel and an increase in travel costs of \$44,000.

General and Administrative Expenses

General and administrative expenses consist primarily of payroll, rent and professional services. General and administrative expenses increased by approximately \$756,000 to approximately \$1,520,000 for the three months ended March 31, 2012 from approximately \$764,000 for the three months ended March 31, 2011. The increase in expenses is primarily attributable to increases in compensation costs of \$141,000 due to additional staffing and raises, increase of \$88,000 in legal costs, increase of \$110,000 in investor relations costs, increase of \$168,000 in travel and conference meeting costs and an increase in stock compensation costs of \$130,000.

Interest expense

Interest expense increased by \$3,000 to approximately \$5,000 for the three months ended March 31, 2012 from approximately \$2,000 for the three months ended March 31, 2011. The increase in interest expense is due to an increase in borrowing under the loan payable.

Derivatives Gain (Loss)

Derivatives gain increased by \$5,492,000 to \$5,613,000 for the three months ended March 31, 2012 from \$121,000 for the three months ended March 31, 2011. The increase in this non-cash gain for the three months ended March 31, 2012 reflects the decrease in the fair value of derivative warrant liability from \$35,473,000 at December 31, 2011 to \$29,001,000 at March 31, 2012 due primarily to the decrease in the fair value of the underlying Common Stock.

Liquidity and Capital Resources

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

Since inception, the Company has experienced negative cash flows from operations. The Company has financed its operations primarily through the sale of equity-related securities. At March 31, 2012, the accumulated deficit was approximately \$44,667,000 and the stockholders' deficit was approximately \$8,457,000.

At March 31, 2012, we had total current assets of approximately \$20,744,000 and current liabilities of approximately \$29,789,000 resulting in a working capital deficit of approximately \$9,045,000. At March 31, 2012, the Company had total assets of approximately \$21,430,000 and total liabilities of approximately \$29,887,000, resulting in a stockholders' deficit of \$8,457,000.

Net cash used by operating activities for the three months ended March 31, 2012 was approximately \$3,162,000. The net operating loss used \$2,461,000, an increase in restricted cash used \$315,000, an increase in prepaid expenses used \$172,000 and a decrease in accrued expensed used \$448,000. Significant commitments that will require the use of cash in operating activities in future periods include obligations under operating leases and note payable. Gross committed lease obligations were approximately \$6,092,000, and capital leases and note payable was approximately \$180,000 at March 31, 2012. Total commitments due for the remainder of fiscal 2012 are approximately \$504,000.

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Net cash provided by financing activities was \$18,445,000 in the three months ended March 31, 2012, as a result of \$18,155,000 of net proceeds from a public offering. In addition, the Company received \$312,000 from the exercise of stock options and warrants and spent \$23,000 on the repayment of a capital lease obligation and a loan payable.

At March 31, 2012, the Company had cash of approximately \$19,605,000, which the Company expects to be sufficient to meet its operating and capital requirements through March 31, 2013. However, the Company will need to raise substantial additional capital in the future to complete clinical trials, obtain marketing approvals and commercialize its products, potentially through debt or equity financings. The sale of debt or equity securities may cause dilution to existing stockholders. Furthermore, there can be no assurance that we will be able to raise such funds if and when they are required. Failure to obtain future funding when needed or on acceptable terms would materially adversely affect our results of operations.

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 trading price of our Common Stock is significantly greater than the applicable exercise prices of the options and warrants and mainly following any necessary registering of underlying securities.

Item 3. Quantitative and Qualitative Disclosures About Market Risk

This information has been omitted as the Company qualifies as a smaller reporting company.

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 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 period to which this report relates that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

PART II—OTHER INFORMATION

Item 1. Legal Proceedings.

From time to time, we could be subject to claims arising in the ordinary course of business or be a defendant in lawsuits. While the outcome of such claims or other proceedings cannot be predicted with certainty, our management expects that any such liabilities, to the extent not provided for by insurance or otherwise, will not have a material adverse effect on our financial condition, results of operations or cash flows.

Item 1A. Risk Factors.

There have been no material changes from the risk factors previously disclosed in Part I, Item 1A. “Risk Factors,” of our Annual Report on Form 10-K for the fiscal year ending December 31, 2011.

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

None.

Item 3. Defaults Upon Senior Securities.

None.

Item 4. Mine Safety Disclosures.

Not applicable.

Item 5. Other Information.

None.

Item 6. Exhibits.

The Exhibits listed in the Exhibit Index immediately preceding such Exhibits are filed with or incorporated by reference in this report.

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.

INVIVO THERAPEUTICS HOLDINGS CORP.

Date: May 14, 2012

By: /s/ Frank M. Reynolds

Name: Frank M. Reynolds

Title: Chief Executive Officer and Chief Financial Officer (Principal Executive, Financial and Accounting Officer)

EXHIBIT INDEX

Exhibit Number	Description
10.1	Amended and Restated Executive Employment Agreement by and between InVivo Therapeutics Holdings Corp. and Frank Reynolds, dated March 5, 2012 (incorporated by reference from Exhibit 10.1 to the Company's Current Report on Form 8-K, as filed with the SEC on March 8, 2012).
10.2	InVivo Therapeutics Holdings Corp. Annual Cash Bonus Plan for Executive Officers (incorporated by reference from Exhibit 10.1 to the Company's Current Report on Form 8-K, as filed with the SEC on March 8, 2012).
31.1/31.2	Certification by the Principal Executive Officer and Principal Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
32.1/32.2	Certification of Principal Executive Officer and Principal Financial Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
101.INS*	XBRL Instance Document
101.SCH*	XBRL Taxonomy Extension Schema Document
101.CAL*	XBRL Taxonomy Calculation Linkbase Document
101.DEF*	XBRL Taxonomy Extension Definition Linkbase Document
101.LAB*	XBRL Taxonomy Label Linkbase Document
101.PRE*	XBRL Taxonomy Presentation Linkbase Document

* Pursuant to Rule 406T of Regulation S-T, the interactive files on Exhibit 101 hereto are deemed not filed or part of a registration statement or prospectus for purposes of Sections 11 or 12 of the Securities Act of 1933, as amended, are deemed not filed for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, and otherwise are not subject to liability under those sections.

SARBANES-OXLEY SECTION 302(a) CERTIFICATION

I, Frank M. Reynolds, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of InVivo Therapeutics Holdings Corp.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. I am responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under my supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to me by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under my supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report my conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. I have disclosed, based on my most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: May 14, 2012

/s/ Frank M. Reynolds

Frank M. Reynolds, Principal Executive Officer and
Principal Financial Officer

**CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Quarterly Report of InVivo Therapeutics Holdings Corp. (the “Company”) on Form 10-Q for the quarter ended March 31, 2012 as filed with the Securities and Exchange Commission on the date hereof (the “Report”), I, Frank M. Reynolds, Chief Executive Officer and Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

A signed original of this written statement required by Section 906 has been provided to the Company and will be retained by the Company and furnished to the Securities and Exchange Commission or its staff upon request.

Dated: May 14, 2012

/s/ Frank M. Reynolds

Frank M. Reynolds, Chief Executive Officer and
Chief Financial Officer