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

FORM 10-Q

(Mark one)

- QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the quarterly period ended March 31, 2012.
- TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the transition period from _____ to _____

Commission file number 0-5576

SPHERIX INCORPORATED

(Exact name of Registrant as specified in its charter)

Delaware
(State or other jurisdiction of incorporation or organization)

52-0849320
(I.R.S. Employer Identification No.)

6430 Rockledge Drive, Suite 503, Bethesda, MD 20817
(Address of principal executive offices)

301-897-2540
(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 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 definition of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.
Large Accelerated Filer Accelerated Filer Non-accelerated Filer Smaller Reporting Company

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

Indicate the number of shares outstanding of each of the Registrant's classes of Common Stock, as of the latest practicable date.

Class	Outstanding as of May 10, 2012
<u>Common Stock, \$0.01 par value</u>	<u>4,159,776</u>

Spherix Incorporated

Form 10-Q For the Quarter Ended March 31, 2012

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Part I. Financial Information

Item 1. Financial Statements

Condensed Consolidated Statements of Operations (Unaudited)

	Three Months Ended March 31,	
	2012	2011
Revenue	\$ 209,562	\$ 306,303
Operating expense		
Direct costs	(109,464)	(130,296)
Research and development expense	(371,403)	(355,503)
Selling, general and administrative expense	(885,672)	(932,204)
Total operating expense	(1,366,539)	(1,418,003)
Loss from operations	(1,156,977)	(1,111,700)
Interest income	1,022	1,219
Other income	-	44,630
Gain on settlement of obligations	-	845,000
Loss before taxes	(1,155,955)	(220,851)
Income tax expense	-	(14,485)
Net loss	\$ (1,155,955)	\$ (235,336)
Net loss per share, basic	\$ (0.31)	\$ (0.10)
Net loss per share, diluted	\$ (0.31)	\$ (0.10)
Weighted average shares outstanding, basic	3,722,019	2,448,647
Weighted average shares outstanding, diluted	3,722,019	2,448,647

See accompanying notes to financial statements.

Spherix Incorporated

Condensed Consolidated Balance Sheets

ASSETS	March 31, 2012 (Unaudited)	December 31, 2011
Current assets		
Cash and cash equivalents	\$ 4,808,841	\$ 4,911,350
Trade accounts receivable, net of allowance of \$0 and \$8,174	146,102	232,507
Other receivables	111,883	53,851
Prepaid research expenses	-	209,780
Prepaid expenses and other assets	87,897	120,427
Total current assets	5,154,723	5,527,915
Property and equipment, net of of accumulated depreciation of \$282,451 and \$265,502	76,132	91,482
Patents, net of accumulated amortization of \$0 and \$2,146	-	-
Deposit	35,625	35,625
Total assets	\$ 5,266,480	\$ 5,655,022
 LIABILITIES AND STOCKHOLDERS' EQUITY		
Current liabilities		
Accounts payable and accrued expenses	\$ 220,769	\$ 269,996
Accrued salaries and benefits	278,201	549,815
Deferred revenue	101,052	72,871
Total current liabilities	600,022	892,682
Deferred rent	39,075	47,675
Total liabilities	639,097	940,357
Commitments and contingencies		
Stockholders' equity		
Preferred stock, \$0.01 par value, 2,000,000 shares authorized; 5,250 series B issued and 1 outstanding at March 31, 2012 and December 31, 2011	-	-
Common stock, \$0.01 par value, 50,000,000 shares authorized; 4,167,819 and 3,103,004 issued, 4,159,776 and 3,094,461 outstanding at March 31, 2012 and December 31, 2011, respectively	41,678	31,030
Paid-in capital in excess of par value	43,353,331	42,295,306
Treasury stock, 8,043 shares	(464,786)	(464,786)
Accumulated deficit	(38,302,840)	(37,146,885)
Total stockholders' equity	4,627,383	4,714,665
Total liabilities and stockholders' equity	\$ 5,266,480	\$ 5,655,022

See accompanying notes to financial statements.

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Condensed Consolidated Statements of Cash Flows (Unaudited)

	Three Months Ended March 31,	
	2012	2011
Cash flows from operating activities		
Net loss	\$ (1,155,955)	\$ (235,336)
Adjustments to reconcile net loss to net cash used in operating activities:		
Gain on settlement of obligations	-	(845,000)
Depreciation and amortization	16,949	19,026
Recovery of bad debt	(8,174)	(13,525)
Stock-based compensation	2,672	-
Changes in assets and liabilities:		
Receivable	36,547	344,812
Prepaid expenses and other assets	242,310	69,325
Accounts payable and accrued expenses	(320,841)	(526,444)
Deferred rent	(8,600)	(7,467)
Deferred compensation	-	(305,000)
Deferred revenue	28,181	(74,126)
Net cash used in operating activities	(1,166,911)	(1,573,735)
Cash flows from investing activities		
Purchase of fixed assets	(1,599)	(2,374)
Net cash used in investing activities	(1,599)	(2,374)
Cash flows from financing activities		
Proceeds from issuance of common stock, net	1,066,001	2,545,592
Net cash provided by financing activities	1,066,001	2,545,592
Net (decrease) increase in cash and cash equivalents	(102,509)	969,483
Cash and cash equivalents, beginning of period	4,911,350	5,575,310
Cash and cash equivalents, end of period	\$ 4,808,841	\$ 6,544,793

See accompanying notes to financial statements.

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Notes to the Condensed Consolidated Financial Statements (Unaudited)

1. Basis of Presentation

The accompanying condensed consolidated financial statements of the Company are unaudited and do not include all of the information and disclosures generally required for annual financial statements. In the opinion of management, the statements contain all material adjustments (consisting of normal recurring accruals) necessary to present fairly the Company's financial position as of March 31, 2012, the results of its operations for the three-month periods ended March 31, 2012 and 2011, and its cash flows for the three-month periods ended March 31, 2012 and 2011. This report should be read in conjunction with the Company's Annual Report on Form 10-K, which contains information and disclosure for the year ended December 31, 2011.

The Company operates via two principal segments, Biospherics and Health Sciences. Biospherics seeks to develop proprietary products for commercial application. Health Sciences provides technical and regulatory consulting services to biotechnology and pharmaceutical companies, as well as providing technical support for the Biospherics segment.

The Company has two wholly-owned subsidiaries, Biospherics Incorporated and Spherix Consulting, Inc., for its two operating segments. The Company's Health Sciences contracts are in the name of Spherix Consulting, Inc. and the Company's patents are in the name of Biospherics Incorporated. Spherix Incorporated provides management, strategic guidance, business development, marketing and other services to its subsidiaries.

On May 6, 2011, the Company effected a one-for-ten reverse split of its common stock. The Company implemented the reverse stock split under the authority granted to the Board of Directors by the Company's stockholders at the annual meeting of stockholders held on November 17, 2009, to effect a reverse stock split of the Company's Common Stock, par value \$0.01 per share. The reverse stock split reduced the number of outstanding shares of Common Stock from 25,624,872 shares to 2,562,488 shares. All per share amounts and outstanding shares, including all Common Stock equivalents, stock options, equity compensation plans, and warrants, have been retroactively restated in the Financial Statements and in the Notes to the Financial Statements for all periods presented to reflect the reverse stock split.

2. Liquidity and Capital Resources

We expect to continue to incur substantial development costs in our Biospherics segment in the next several years, without substantial corresponding revenue, and we will continue to incur ongoing administrative and other expenses, including public company expenses. We intend to finance our activities through:

- the remaining proceeds of our previous equity offerings; and
- funds we will seek to raise through the sale of additional stock in the future.

Working capital was \$4.6 million at March 31, 2012, including \$4.8 million cash on hand. Management believes that this cash on hand will be sufficient to sustain operations for 2012. We expect that we will need to expend between \$4 million to \$5 million over the next twelve (12) months to support our currently planned development operations. This estimate assumes (i) no further significant expenditures for developing D-tagatose as a drug for diabetes, (ii) continuing development of SPX-106T as a treatment for high triglycerides and other dyslipidemias, (iii) ongoing operation of the Health Sciences segment at the current level of activity and (iv) that we raise additional funds to continue our development efforts beyond this 12-month period.

In February 2012, the Company obtained net proceeds of approximately \$1.1 million in a registered direct offering of common stock and warrants. Both the common stock issued in the offering and the underlying common stock for the warrants issued in the offering were previously registered under a Form S-3 shelf registration statement declared effective by the SEC in October 2009.

Due to the nature of our business, we will need to raise additional funds on a consistent basis to continue operations, to fully pursue the triglycerides and other dyslipidemias opportunity, and to seek, investigate, pursue and exploit other pipeline development opportunities. Fundraising will likely require the issuance of additional equity

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securities and a purchaser of such securities will likely insist that such securities be registered securities. NASDAQ rules require stockholder approval for certain stock issuances constituting twenty percent (20%) or more of a company's issued and outstanding stock.

The Company currently has an effective Form S-3 shelf registration statement under which 2,695,350 common shares remain available for issuance. However, it is unlikely that the Company will be able to use this shelf registration statement for another significant offering prior to its expiration on October 1, 2012. Following the expiration of this registration, the Company will need to file another shelf registration statement subject to SEC approval in order to proceed with future equity offerings.

The Company cannot be assured that it will be able to attract a purchaser of securities to raise the additional funds it will likely require; that the Company will be able to obtain any required stockholder approval; or that the Company will be able to have additional registered direct primary offerings. If we reach a point where we are unable to raise needed additional funds to continue our business activities, we will be forced to cease our development activities and dissolve the Company. In such an event, we will need to satisfy various severance, lease termination and other dissolution-related obligations.

3. Common Stock and Paid-in Capital in Excess of Par

During the three months ended March 31, 2012, the Company issued shares of common stock as follows:

	Preferred Stock		Common Stock		Paid-in Capital in Excess of Par
	Shares	Amount	Shares	Amount	
Balance, January 1, 2012	1	\$ -	3,103,004	\$ 31,030	\$ 42,295,306
Sale of common stock, net of offering costs of \$84,000 (1)	-	-	1,064,815	10,648	1,055,353
Stock-based compensation	-	-	-	-	2,672
Balance, March 31, 2012	1	\$ -	4,167,819	\$ 41,678	\$ 43,353,331

(1) The stock issuance is further discussed in Note 2, "Liquidity and Capital Resources"

4. Accounts Receivable

The Company's accounts receivable includes amounts owed by customers for consulting related activities under contracts signed with those customers. Credit is extended to customers based on an evaluation of a customer's financial condition and, in general, collateral is not required. Management regularly reviews accounts receivable for uncollectible and potentially uncollectible accounts, and when necessary establishes an allowance for doubtful accounts. Balances that are outstanding after management has used reasonable collection efforts are written-off through a charge to the allowance for doubtful accounts and a credit to accounts receivable. At March 31, 2012 and December 31, 2011, the allowance for doubtful accounts was \$0 and \$8,000, respectively.

5. Concentrations of Risk

The Company maintains cash balances at several banks. Interest bearing accounts at each institution are insured by the Federal Deposit Corporation up to \$250,000. At March 31, 2012, the Company's cash and cash equivalents in excess of the FDIC limits were \$4.6 million. The Company has not experienced any losses in such accounts and believes it is not exposed to any significant risks.

During the three months ended March 31, 2012 and 2011, 100% of our revenue was generated from the Health Sciences business. For the three months ended March 31, 2012, revenue from four customers accounted for 23%, 19%, 12% and 11% of revenues, respectively. For the three months ended March 31, 2011, revenue from five customers accounted for 21%, 20%, 17%, 13% and 10% of revenues, respectively. At March 31, 2012, five major contracts constituted 83% of the trade accounts receivable, the components of which were 22%, 18%, 15%, 14% and 14%, respectively. At December 31, 2011, three major contracts constituted 71% of the trade accounts receivable, the

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components of which were 43%, 18% and 10%, respectively. No other single contract was greater than 10% of total trade accounts receivable.

6. Use of Estimates and Assumptions

The accompanying condensed consolidated financial statements have been prepared in conformity with accounting principles generally accepted in the United States of America ("US GAAP"). This requires management to make estimates and assumptions that affect certain reported amounts of assets and liabilities and disclosures of contingent assets and liabilities at the date of the financial statements, and the reported amounts of revenue and expenses during the period. Accordingly, actual results could differ from those estimates and assumptions.

7. New Accounting Pronouncements

In June 2011, the FASB issued a new accounting standard on the presentation of comprehensive income. The new standard requires the presentation of comprehensive income, the components of net income and the components of other comprehensive income either in a single continuous statement of comprehensive income or in two separate but consecutive statements. The new standard also requires presentation of adjustments for items that are reclassified from other comprehensive income to net income in the statement where the components of net income and the components of other comprehensive income are presented. In December 2011, the FASB deferred the effective date for amendments to the presentation of reclassifications of items out of accumulated other comprehensive income, while still requiring entities to adopt the other requirements. We adopted the new standard on January 1, 2012. The adoption of this standard had no impact on our consolidated financial statements. We are required to adopt the requirements for reclassification of items out of accumulated other comprehensive income as of the beginning of 2013. We do not expect this adoption to have a material impact on our financial statements.

8. Fair Value Measurement

The Company has elected not to apply the fair value option to measure any of the financial assets and liabilities on its balance sheet not already valued at fair value under other accounting pronouncements. These other financial assets and liabilities are primarily accounts receivable and accounts payable, which are reported at historical value. The fair value of these financial assets and liabilities approximate their fair value because of their short duration.

9. Net Loss Per Share

Basic net loss per common share has been computed by dividing net loss by the weighted-average number of common shares outstanding during the year. Diluted net loss per common share has been computed by dividing net loss by the weighted-average number of common shares outstanding without an assumed increase in common shares outstanding for common stock equivalents, as common stock equivalents are antidilutive. At March 31, 2012, none of the Company's 48,509 outstanding options and none of the warrants to purchase up to 1,352,735 shares of common stock were included in the calculation of diluted earnings per share as the exercise prices were all above the average market price of the Company's common stock for the period and thus would be antidilutive. At March 31, 2011, none of the Company's 3,509 outstanding options and none of the warrants to purchase up to 567,574 shares of common stock were included in the calculation of diluted earnings per share as the exercise prices were all above the average market price of the Company's common stock for the period and thus would be antidilutive.

10. Accounting for Stock-Based Compensation

The Company realized \$3,000 in stock-based compensation expense during the three months ended March 31, 2012, and had \$39,000 of unrecognized compensation as of that date, which will be realized over the remaining 3.6 years. For the three months ended March 31, 2011, the Company had no stock-based compensation expense.

A summary of option activity under the Company's employee stock option plan for the three months ended March 31, 2012, is presented below:

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Options	Shares	Weighted-Average Exercise Price	Weighted-Average Remaining Contractual Term	Aggregate Intrinsic Value
Outstanding at beginning of year	48,509	\$ 2.68		
Granted	-	\$ -		
Exercised	-	\$ -		
Expired or forfeited	-	\$ -		
Outstanding at end of period	<u>48,509</u>	\$ 2.68	4.4	\$ -
Options exercisable at March 31, 2012	<u>23,509</u>		4.4	\$ -
Weighted-average fair value of options granted during the year	\$ -			

As of March 31, 2012, there were 25,000 unvested options to purchase common stock under the plan.

11. Income Taxes

Deferred income taxes are recognized for the tax consequences in future years of differences between the tax bases 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. A valuation allowance is established based upon periodic assessments made by management to reduce deferred tax assets to the amount expected to be realized. Income tax expense is the current tax provision for the period and the change during the period in deferred tax assets and liabilities. The Company's estimated annual effective tax rate is zero for the first three months of 2012 and 2011. The effective income tax rate for the quarter ended March 31, 2012 is zero as compared to the quarter ended March 31, 2011 which was approximately -6.6% as a result of realizing a discrete item of \$15,000. As of March 31, 2012, the Company continues to provide a valuation allowance against its net deferred tax assets since the Company believes it is more likely than not that its deferred tax assets will not be realized.

12. Information by Business Segment

Operating segments are components of an enterprise about which separate financial information is available that is evaluated regularly by the chief operating decision maker, or decision-making group, in deciding how to allocate resources and in assessing performance. The Company operates via two principal segments, Biospherics and Health Sciences. Biospherics seeks to develop proprietary products for commercial application. Health Sciences provides technical and regulatory consulting services to biotechnology and pharmaceutical companies, as well as aiding the Biospherics segment.

Financial information by business segment for the three months ended March 31, 2012 and 2011 is summarized below:

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		Three Months Ended March 31,		
		2012	2011	
Revenue	Biospherics	\$ -	\$ -	
	Health Sciences	210,000	306,000	
	Total revenue	<u>\$ 210,000</u>	<u>\$ 306,000</u>	
Operating (Loss) Profit and Loss Before Income Taxes	Biospherics	\$ (502,000)	\$ (406,000)	
	Health Sciences	71,000	123,000	
	General	<u>(726,000)</u>	<u>(829,000)</u>	
	Total operating loss	(1,157,000)	(1,112,000)	
	Other income	-	45,000	
	Gain of settlement of obligations	-	845,000	
	Interest income	<u>1,000</u>	<u>1,000</u>	
	Loss from operations before income taxes	<u>\$ (1,156,000)</u>	<u>\$ (221,000)</u>	
			March 31,	Dec. 31,
			2012	2011
Identifiable Assets	Biospherics	\$ 30,000	\$ 287,000	
	Health Sciences	231,000	193,000	
	General corporate assets	<u>5,005,000</u>	<u>5,175,000</u>	
	Total assets	<u>\$ 5,266,000</u>	<u>\$ 5,655,000</u>	

13. Gain on Settlement of Obligations

Purchase Commitments

On January 14, 2011, Biospherics Incorporated, filed a Complaint For Injunction Relief And Damages in The United States District Court For The District Of Maryland against Inalco S.p.A. (the "Complaint"). The Complaint alleged that one of the Company's D-Tagatose suppliers, Inalco, had breached the 2009 Manufacturing Support and Supply Agreement as Inalco (i) refused to supply D-tagatose previously paid for by Biospherics, (ii) refused to provide a promised bank guarantee, and (iii) shut-down its D-tagatose production facilities. On March 16, 2011, both parties signed a settlement agreement whereby Inalco agreed to supply Spherix with 8.5 metric tons of D-tagatose, which has been received by Spherix, and both parties have released each other from any other obligations under the previous agreement. As a result, the Company recognized a gain on settlement of obligations of \$600,000 in March 2011 on the release from its purchase obligation.

Related Party Transactions

In January 2011, the Company entered into a Letter Agreement with Gilbert V. Levin and M. Karen Levin pursuant to which the Company agreed to make a one time lump sum payment of \$450,000 to the Levins in full satisfaction of the Company's obligation to make a series of continuing payments to the Levins relating to their prior employment by the Company. The Company's estimated liability to the Levins prior to the above agreement was approximately \$695,000. The \$450,000 lump sum payment was made on January 31, 2011, and the Company recognized the \$245,000 difference as a gain on settlement of obligations in January 2011.

14. Subsequent Events

The Company evaluated all events or transactions after March 31, 2012 through the date the financial statements were issued.

NASDAQ Bid Price Deficiency Notice

On April 20, 2012, Company received written notification (the "Notice") from The NASDAQ Stock Market ("NASDAQ") advising the Company that the bid price of the Company's common stock (the "Common Stock") for the

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previous thirty (30) consecutive trading days had closed below the minimum \$1.00 per share (the “Minimum Bid Price Requirement”) required for continued listing on the NASDAQ Capital Market pursuant to NASDAQ Rule 5550(a)(2) (the “Rule”). The Notice has no effect on the listing of the Common Stock at this time.

Pursuant to NASDAQ Rule 5810(c)(3)(A), the Company has been provided an initial period of 180 calendar days, or until October 17, 2012, to regain compliance with the Minimum Bid Price Requirement. The Notice further provides that NASDAQ will provide written notification stating that the Company has achieved compliance with the Rule if at any time before October 17, 2012, the bid price of the Common Stock closes at \$1.00 per share or more for a minimum of ten (10) consecutive business days, although, under certain circumstances, NASDAQ has the discretion to require compliance for a period in excess of ten (10) consecutive business days.

If the Company does not regain compliance with the Rule by October 17, 2012, and if the Company is not otherwise entitled to a further compliance period, NASDAQ will provide notice to the Company that the Common Stock will be delisted from the NASDAQ Capital Market. If the Company receives such a letter, the Company will have an opportunity to appeal the determination to a NASDAQ Hearings Panel.

The Company intends to take no action at this time and will monitor the closing bid price of its common stock over the next several months. At the appropriate time, if needed, the Company will review its options to regain compliance with the NASDAQ Listing Rules. Such options may include requesting a further extension of time or to seek stockholder approval for a reverse stock split to address the bid price deficiency, however, no decision has been made at this time.

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

The following is intended to update the information contained in the Company’s Annual Report on Form 10-K for the year ended December 31, 2011, and presumes that readers have access to, and will have read, “Management’s Discussion and Analysis of Financial Condition and Results of Operations” contained in such Form 10-K.

Certain statements in this Quarterly Report on Form 10-Q may contain forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934 and are identified by the use of forward-looking words or phrases such as “believes,” “expects,” “is or are “expected,” “anticipates,” “anticipated,” “should” and words of similar impact. These forward-looking statements are based on the Company’s current expectations. Because forward-looking statements involve risks and uncertainties, the Company’s actual results could differ materially.

Overview

The Company operates via two segments, Biospherics and Health Sciences. Biospherics seeks to develop proprietary pharmaceutical products. Health Sciences provides technical and regulatory consulting services to food, consumer products, biotechnology and pharmaceutical companies, as well as providing technical support to the Biospherics segment.

Biospherics is dedicated to development of pharmaceuticals. Recently, the Company has focused its studies on treating high triglycerides and other dyslipidemias with a combination of D-tagatose and SPX-106, a licensed drug compound, which combination is referred to as SPX-106T. Animal studies of SPX-106T are ongoing and an initial human efficacy study could begin in mid-2012.

Tagatose, a naturally occurring sugar, is a low-calorie, full-bulk sweetener previously approved by the Food and Drug Administration (“FDA”) as a GRAS (Generally Recognized As Safe) food ingredient. It is a true sugar that looks, feels, and tastes like table sugar. During human safety studies supporting food use, we discovered and patented a number of health and medical uses for D-tagatose.

The Company is also exploring the possibility of increasing its pipeline of potential products by obtaining by license or acquisition other clinical stage compounds/orphan drugs for continued development and commercialization. Orphan drug status by the FDA is usually applied to products where the number of patients in the United States in the given disease category is typically less than 200,000. The European Medicines Agency adopted a similar system

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termed “The Regulation of Orphan Medicinal Products.” These Orphan drug indications typically require more modest investment in the development stages, followed by a quicker regulatory path to approval.

We have incurred negative cash flow from operations in each of the two most recent fiscal years. We anticipate incurring negative cash flows from operating activities for the foreseeable future. We have spent, and expect to continue to spend, substantial amounts in connection with implementing our business strategy, including our product development efforts.

On April 20, 2012, Company received a deficiency notice from NASDAQ regarding the bid price of the Company’s common stock. The Company intends to take no action at this time and will monitor the closing bid price of its common stock over the next several months. The Company will review its options to regain compliance with the NASDAQ Listing Rules. Such options may include requesting a further extension of time or to seek stockholder approval for a reverse stock split to address the bid price deficiency, however, no decision has been made at this time (see note 14, “Subsequent Events” to the Condensed Consolidated Financial Statements).

Results of Operations for the Three Months Ended March 31, 2012 and 2011

Revenue and Direct Costs

Revenue and direct contract costs are primarily related to the Company’s Health Sciences business. The consulting business generally provides services on either a fixed-price basis or a “time and expenses” basis, charging hourly rates for each staff member involved in a project, based on his or her skills and experience. The Health Sciences consulting staff also provides support for our R&D activities and the decrease in direct costs between years reflects an increase in the staff’s time devoted to developing study protocols and other support for the Company’s R&D activities. This shift in resources accounted for approximately half of the decrease in revenue between years. Lower effective rates on contracts between years accounted for the rest of the decrease in revenue between periods.

No substantial revenue is expected from the Biospherics segment until the Company is successful in selling or licensing its technology.

Research and Development

Research and development expenditures relate solely to the Biospherics segment and consist primarily of salaries and related personnel costs, fees paid to consultants and outside service providers, and other expenses related to our efforts to develop SPX-106T for use in lowering triglyceride and cholesterol levels. We expense our research and development costs as they are incurred.

An application for an Investigational New Drug (“IND”) for the D-tagatose and SPX-106 combination drug is being prepared for submission to the US FDA, and a human proof-of-concept trial may begin in second half of 2012. Combination therapy is an important tool in many complex disease settings, including cancer, infectious diseases, cardiovascular disease, diabetes and the metabolic syndrome. Scientific progress has increased understanding of the pathophysiological processes that underlie these and other multifactorial diseases. This increased knowledge has advanced new therapeutic approaches using combinations of drugs targeted at multiple therapeutic targets to improve treatment response and/or minimize development of drug resistance. In settings like metabolic syndrome, in which combination therapy may offer significant therapeutic advantages, there is increasing interest in the development of combinations of investigational drugs not previously developed for any purpose.

We estimate that it will likely take 3 or more years to complete the studies/trials necessary to attract a pharma partner to complete the development and an additional 2-4 years to complete all necessary studies for an NDA filing for D-tagatose or SPX-106T.

The Company is seeking to in-license or acquire additional drugs to diversify its pipeline. Clinical-stage compounds (Phase 1 or Phase 2) are of particular interest, as are orphan drugs, which can be eligible for accelerated approval processes.

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Selling, General and Administrative

Our selling, general and administrative (S,G&A) expenses consist primarily of salaries and related expenses for executive, finance and other administrative personnel, professional fees and other corporate expenses, including facilities-related expenses. S,G&A expenses for the three months ended March 31, 2012 were consistent with those of the prior year. The Company expects that it will see an increase in S,G&A costs in 2012 as we seek, investigate and pursue opportunities to expand our research and development pipeline.

Interest

Interest revenue in 2012 and 2011 was primarily derived from interest earned on the net proceeds of our equity offerings.

Other Income

In October 2010, the Company was awarded two one-time grants from the U.S. Government under the Patient Protection and Affordable Care Act. The awards were for the Company's Diabetes and Triglyceride research. As a result, in 2011 the Company recognized \$44,630 in other income.

Gain on Settlement of Obligations

On January 14, 2011, Biospherics Incorporated, a wholly-owned subsidiary of the Company, filed a Complaint For Injunction Relief And Damages in The United States District Court For The District Of Maryland against Inalco S.p.A. (the "Complaint"). The Complaint alleged that Inalco had breached the 2009 Manufacturing Support and Supply Agreement as Inalco (i) refused to supply D-tagatose previously paid for by Biospherics, (ii) refused to provide a promised bank guarantee, and (iii) shut-down its D-tagatose production facilities. On March 16, 2011, both parties signed a settlement agreement whereby Inalco agreed to supply Spherix with 8.5 metric tons of D-tagatose, which has been received by Spherix, and both parties have released each other from any other obligations under the previous agreement. As a result, the Company recognized a gain of \$600,000 in March 2011 on the release from its purchase obligation.

In January 2011, the Company entered into a Letter Agreement with Gilbert V. Levin and M. Karen Levin pursuant to which the Company agreed to make a one time lump sum payment of \$450,000 to the Levins in full satisfaction of the Company's obligation to make a series of continuing payments to the Levins relating to their prior employment by the Company. Per the terms of the agreement, Gilbert V. Levin resigned as a member of the Board of Directors of the Company on January 13, 2011. The Company's estimated liability to the Levins at December 31, 2010, and prior to the above agreement, was approximately \$695,000. The \$450,000 lump sum payment was made on January 31, 2011, and the Company recognized the \$245,000 difference as a gain on settlement of obligations in January 2011.

Liquidity and Capital Resources, Consolidated

We expect to continue to incur substantial development costs in our Biospherics segment in the next several years, without substantial corresponding revenue, and we will continue to incur ongoing administrative and other expenses, including public company expenses. We intend to finance our activities through:

- the remaining proceeds of our equity offerings; and
- additional funds we will seek to raise through the sale of additional stock in the future.

Working capital was \$4.6 million at March 31, 2012, including \$4.8 million cash on hand. Management believes that this cash on hand will be sufficient to sustain operations for 2012. We expect that we will need to expend between \$4 million to \$5 million over the next twelve (12) months to support our currently planned development operations. This estimate assumes (i) no further significant expenditures for developing D-tagatose as a drug for diabetes, (ii) continuing development of SPX-106T as a treatment for high triglycerides and other dyslipidemias, (iii) ongoing operation of the Health Sciences segment at the current level of activity and (iv) that we raise additional funds to continue our development efforts beyond this 12-month period.

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In February 2012, the Company obtained net proceeds of approximately \$1.1 million in a registered direct offering of common stock and warrants. Both the common stock issued in the offering and the underlying common stock for the warrants issued in the offering were previously registered under a Form S-3 shelf registration statement declared effective by the SEC in October 2009.

Due to the nature of our business, we will need to raise additional funds on a consistent basis to continue operations, to fully pursue the triglycerides and other dyslipidemias opportunity, and to seek, investigate, pursue and exploit other pipeline development opportunities. Fundraising will likely require the issuance of additional equity securities and a purchaser of such securities will likely insist that such securities be registered securities. NASDAQ rules require stockholder approval for certain stock issuances constituting twenty percent (20%) or more of a company's issued and outstanding stock.

The Company currently has an effective Form S-3 shelf registration statement under which 2,695,350 common shares remain available for issuance. However, it is unlikely that the Company will be able to use this shelf registration statement for another significant offering prior to its expiration on October 1, 2012. Following the expiration of this registration, the Company will need to file another shelf registration statement subject to SEC approval in order to proceed with future equity offerings.

The Company cannot be assured that it will be able to attract a purchaser of securities to raise the additional funds it will likely require; that the Company will be able to obtain any required stockholder approval; or that the Company will be able to have additional registered direct primary offerings. If we reach a point where we are unable to raise needed additional funds to continue our business activities, we will be forced to cease our development activities and dissolve the Company. In such an event, we will need to satisfy various severance, lease termination and other dissolution-related obligations.

Item 4. Controls and Procedures

Inherent Limitations on the Effectiveness of Controls

Management, including our Chief Executive Officer and Chief Financial Officer, do not expect that our disclosure controls and procedures will prevent all errors and fraud. In designing and evaluating the disclosure controls and procedures, management recognized that any controls and procedures, no matter how well designed and operated, can provide only reasonable, not absolute, assurance of achieving the desired control objectives. Further, the design of a control system must reflect the fact that there are resource constraints, and management necessarily was required to apply its judgment in evaluating the cost-benefit relationship of possible controls and procedures. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, within the Company 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. Additionally, controls can be circumvented by the individual acts of some persons, by collusion of two or more people, or by management's override of the control. The design of any system of controls also is based in part upon 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. Over time, controls may become inadequate because of changes in conditions, or the degree of compliance with the policies or procedures may deteriorate. Because of the inherent limitations in a cost-effective control system, misstatements due to error or fraud may occur and not be detected.

Disclosure Controls and Procedures

We maintain disclosure controls and procedures that are designed to ensure that information required to be disclosed in our Exchange Act reports, such as this report on Form 10-Q, is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms, and that such information 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. These controls and procedures are based closely on the definition of "disclosure controls and procedures" in Rule 13a-15(e) promulgated under the Exchange Act. Rules adopted by the SEC require that we present the conclusions of the Chief Executive Officer and Chief Financial Officer about the effectiveness of our disclosure controls and procedures as of the end of the period covered by this report.

Spherix Incorporated

The Company carried out an evaluation, under the supervision and with the participation of the Company's management, including the Company's Chief Executive Officer and Chief Financial Officer, of the effectiveness of the design and operation of the Company's disclosure controls and procedures to provide reasonable assurance of achieving their objective pursuant to Exchange Act Rule 13a-14. Based upon that evaluation, the Chief Executive Officer and Chief Financial Officer concluded that the Company's disclosure controls and procedures are effective at a reasonable assurance level, as of March 31, 2012.

Changes in Internal Controls over Financial Reporting

There were no changes in the Company's internal control over financial reporting during the period covered by this quarterly report that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting.

Part II. Other Information

Item 1A. Risk Factors

In addition to the other information set forth in this report, you should carefully consider the factors discussed in Part I, "Item 1A Risk Factors" in our Form 10-K for the year ending December 31, 2011, which could materially affect our business, financial condition, and results of operations. The risks described in our Form 10-K are not the only risks facing our Company. Additional risks and uncertainties not currently known to us or that we currently deem to be immaterial also may materially adversely affect our business, financial condition and/or operating results.

Item 6. Exhibits

- 31.1 Certification of Chief Executive Officer of Spherix Incorporated pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
- 31.2 Certification of Chief Financial Officer of Spherix Incorporated pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
- 32.1 Certification of Chief Executive Officer of Spherix Incorporated pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
- 32.2 Certification of Chief Financial Officer of Spherix Incorporated pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
- 101.1 XBRL Instance Document
- 101.2 XBRL Taxonomy Extension Schema Document
- 101.3 XBRL Taxonomy Extension Calculation Linkbase Document
- 101.4 XBRL Taxonomy Extension Definition Linkbase Document
- 101.5 XBRL Taxonomy Extension Label Linkbase Document
- 101.6 XBRL Taxonomy Extension Presentation Linkbase Document

Spherix Incorporated

Signatures

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

Spherix Incorporated (Registrant)

Date: May 15, 2012

By: /s/ Claire L. Kruger
Claire L. Kruger
Chief Executive Officer and Chief
Operating Officer

Date: May 15, 2012

By: /s/ Robert L. Clayton
Robert L. Clayton, CPA
Chief Financial Officer and Treasurer

Spherix Incorporated

**Certification of
Chief Executive Officer
Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002**

I, Claire L. Kruger, certify that:

1. I have reviewed this report on Form 10-Q of Spherix Incorporated;
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. The registrant's other certifying officer and I are 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 our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us 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 our 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 our 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. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of 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.

/s/ Claire L. Kruger

Claire L. Kruger
Chief Executive Officer and Chief
Operating Officer
May 15, 2012

Spherix Incorporated

**Certification of
Chief Financial Officer
Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002**

I, Robert L. Clayton, certify that:

1. I have reviewed this report on Form 10-Q of Spherix Incorporated;
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. The registrant's other certifying officer and I are 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 our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us 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 our 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 our 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. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of 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.

/s/ Robert L. Clayton

Robert L. Clayton
Chief Financial Officer and Treasurer
May 15, 2012

Spherix Incorporated

**Certification of
Chief Executive Officer
Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002**

I, Claire L. Kruger, Chief Executive Officer and Chief Operating Officer, of Spherix Incorporated (the "Company"), in compliance with Section 906 of the Sarbanes-Oxley Act of 2002, hereby certify that, to the best of my knowledge, the Company's Report on Form 10-Q for the period ended March 31, 2012 (the "Report") filed with the Securities and Exchange Commission:

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

/s/ Claire L. Kruger

Claire L. Kruger
Chief Executive Officer and Chief
Operating Officer
May 15, 2012

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

Spherix Incorporated

**Certification of
Chief Financial Officer
Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002**

I, Robert L. Clayton, Chief Financial Officer and Treasurer, of Spherix Incorporated (the “Company”), in compliance with Section 906 of the Sarbanes-Oxley Act of 2002, hereby certify that, to the best of my knowledge, the Company’s Report on Form 10-Q for the period ended March 31, 2012 (the “Report”) filed with the Securities and Exchange Commission:

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

/s/ Robert L. Clayton
Robert L. Clayton
Chief Financial Officer and Treasurer
May 15, 2012

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