Cytosorbents Corp Form 424B3 March 31, 2015

Prospectus Supplement filed under Rule 424(b)(3) in connection with Registration No. 333-193053 and Registration No. 333-194394

PROSPECTUS SUPPLEMENT NO. 1 DATED MARCH 31, 2015 (To Prospectus Dated March 7, 2014)

CYTOSORBENTS CORPORATION

This is a supplement ("Prospectus Supplement No. 1") to our prospectus, dated March 7, 2014 (the "Prospectus"), relating to the offer and sale of an aggregate of up to 40,800,000 units at a per unit price of \$0.25, each unit consisting of one (1) share of our common stock and one (1) warrant to purchase 0.50 shares of common stock at an exercise price of \$0.3125 per share issued as part of this Unit. On December 3, 2014 we effected a twenty-five-for-one (25:1) reverse split of our common stock. Taking into effect the twenty-five-for-one (25:1) reverse stock split, the Prospectus relates to the offer and sale of an aggregate of up to 1,632,000 units at a per unit price of \$6.25, each unit consisting of one (1) share of our common stock and one (1) warrant to purchase 0.02 shares of common stock at an exercise price of \$7.8125 per share issued as a part of this Unit.

This Prospectus Supplement No. 1 is not complete without, and may not be delivered or utilized except in connection with, the Prospectus, including any amendments or supplements thereto.

Quarterly Report on Form 10-Q for Fiscal Quarter Ended March 31, 2014

On May 14, 2014, we filed with the Securities and Exchange Commission a quarterly report on Form 10-Q for the fiscal quarter ended March 31, 2014. The quarterly report, as filed (but without the exhibits filed with the Form 10-Q), is set forth below.

The information contained in this Prospectus Supplement No. 1 supplements and supersedes, in relevant part, the information contained in the Prospectus, as amended and supplemented. This Prospectus Supplement No. 1 is incorporated by reference into, and should be read in conjunction with, the

Prospectus, as amended and supplemented, and is not complete without, and may not be delivered or utilized except in connection with, the Prospectus, as amended and supplemented.

The Prospectus, together with this Prospectus Supplement No. 1, dated March 31, 2015, constitutes the prospectus required to be delivered by Section 5(b) of the Securities Act of 1933, as amended, with respect to offers and sales of the common stock as set forth in the Prospectus, as amended and supplemented. All references in the Prospectus to "this prospectus" are amended to read "this prospectus (as supplemented and amended)."

INVESTING IN OUR SECURITIES INVOLVES A HIGH DEGREE OF RISK. YOU SHOULD CONSIDER CAREFULLY THE *RISK FACTORS* BEGINNING ON PAGE 7 OF THE PROSPECTUS BEFORE PURCHASING ANY OF THE SECURITIES OFFERED.

NEITHER THE SECURITIES AND EXCHANGE COMMISSION NOR ANY STATE SECURITIES COMMISSION HAS APPROVED OR DISAPPROVED OF THESE SECURITIES OR PASSED UPON THE ADEQUACY OR ACCURACY OF THIS PROSPECTUS SUPPLEMENT NO. 1. ANY REPRESENTATION TO THE CONTRARY IS A CRIMINAL OFFENSE.

The date of this Prospectus Supplement No. 1 is dated March 31, 2015.

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-Q

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

For the quarterly period ended March 31, 2014

Or

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

Commission file number: 000-51038

CYTOSORBENTS CORPORATION

(Exact name of registrant as specified in its charter)

Nevada98-0373793(State or other jurisdiction of
incorporation or organization)(I.R.S. Employer Identification No.)

7 Deer Park Drive, Suite K

Monmouth Junction, New Jersey 08852

(Address of principal executive offices) (Zip Code)

(732) 329-8885

(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. b 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 b 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 "Accelerated filer "Non-accelerated filer " (Do not check if a smaller reporting company)Smaller reporting company þ

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

As of May 12, 2014 there were 300,737,732 shares of the issuer's Common Stock outstanding.

CytoSorbents Corporation

(a development stage company)

FORM 10-Q

TABLE OF CONTENTS

PART I. FINANCIAL INFORMATION

Item 1. Financial Statements (March 31, 2014 and 2013 unaudited) 3 **Consolidated Balance Sheets** 3 Consolidated Statements of Operations and Comprehensive Loss 4 Consolidated Statement of Changes in Redeemable Convertible Preferred Stock and Stockholders' Equity 5 (Deficiency) Consolidated Statements of Cash Flows 6 Notes to Consolidated Financial Statements 8 Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations 17 Item 3. Quantitative and Qualitative Disclosures about Market Risk 22 Item 4. Controls and Procedures 23 PART II. OTHER INFORMATION Item 1. Legal Proceedings 24 Item 1A. Risk Factors 24 Item 2. Unregistered Sales of Equity Securities and Use of Proceeds 24 Item 3. Defaults of Senior Securities 24 Item 4. Mine Safety Disclosures 24 Item 5. Other Information 24 Item 6. Exhibits 24

2

Page

PART I — FINANCIAL INFORMATION

Item 1. Financial Statements.

CYTOSORBENTS CORPORATION

(a development stage company)

CONSOLIDATED BALANCE SHEETS

	March 31, 2014 (Unaudited)	December 31, 2013
ASSETS		
Current Assets: Cash and cash equivalents Grants and accounts receivable, net of allowance for doubtful accounts at \$0 Short-term investments Inventories Prepaid expenses and other current assets	\$6,416,059 327,321 4,745,000 146,523 193,031	\$2,183,030 453,017 245,608 605,312
Total current assets	11,827,934	3,486,967
Property and equipment – net	155,401	144,393
Other assets Total long-term assets	409,687 565,088	414,375 558,768
Total Assets	\$12,393,022	\$4,045,735
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current Liabilities: Accounts payable Accrued expenses and other current liabilities T Deferred revenue Warrant liability Convertible notes payable, net of debt discount in the amount of \$115,863 at March 31, 2014 and \$198,644 at December 31, 2013	\$527,647 379,834 117,364 546,720 1,727,137	\$786,517 361,700 272,359 1,644,356
Total current liabilities	3,298,702	3,064,932

Redeemable Series B Convertible Preferred Stock, par value \$0.001, 200,000 shares authorized; 81,319.98 and 79,336.54 issued and outstanding at March 31, 2014 and December 31, 2013, respectively	16,353,131	15,246,350
Stockholders' Equity/ (Deficiency):		
10% Series A Convertible Preferred Stock, 12,000,000 shares authorized; 1,803,660 and 1,759,666 shares issued and outstanding at March 31, 2014 and December 31, 2013, respectively	1,804	1,760
Common Stock, 800,000,000 shares authorized; 299,025,590 and 251,319,547 shares issued and outstanding at March 31, 2014 and December 31, 2013,	299,026	251,320
respectively	277,020	231,320
Additional paid-in capital	100,390,887	91,343,135
Accumulated other comprehensive loss	(55,154)	(55,987)
Deficit accumulated during the development stage	(107,895,374)	(105,805,775)
Total stockholders' equity (deficiency)	(7,258,811)	(14,265,547)
Total Liabilities and Stockholders' Equity (Deficiency)	\$12,393,022	\$4,045,735

See accompanying notes to consolidated financial statements.

CYTOSORBENTS CORPORATION

(a development stage company)

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE LOSS

	Period from January 22, 1997 (date of inception) to March	Three months March 31,	ended
	31, 2014	2014	2013
	(Unaudited)	(Unaudited)	(Unaudited)
Revenue:		* * () * 1	• • • • • • • • • • • • • • • • • • •
Sales	\$1,578,682	\$569,243	\$176,098
Grant income	4,283,949	491,262	195,232
Other revenue	1,667	1,667	
Total revenue	5,864,298	1,062,172	371,330
Cost of revenue	3,407,973	662,537	253,511
Gross margin	2,456,325	399,635	117,819
Other Expenses:	55 005 171	006 774	704 141
Research and development	55,905,171	236,774	704,141
Legal, financial and other consulting	9,804,087	310,308	222,746
Selling, general and administrative	29,994,709	1,006,747	613,162
Change in fair value of management and incentive units	(6,055,483) —	
Total expenses	89,648,484	1,553,829	1,540,049
Loss from operations	(87,192,159) (1,154,194) (1,422,230)
Other (income)/expense:			
Gain on disposal of property and equipment	(21,663) —	
Gain on extinguishment of debt	(216,617) —	
Interest expense/(income), net	7,861,482	137,089	206,712
Penalties associated with non-registration of Series A Preferred Stock	361,495	_	_
Change in warrant liability	(316,200) (316,200) —
Total other (income)/expense, net	7,668,497	(179,111) 206,712
	(a. (a		
Loss before benefit from income taxes	(94,860,656) (975,083) (1,628,942)
Benefit from income taxes	(1,397,353) —	
Net loss	(93,463,303) (1,628,942)
Preferred stock dividend	14,432,071	1,114,516	586,417
Net loss available to common shareholders	\$(107,895,374) \$(2,089,599) \$(2,215,359)

Basic and diluted net loss per common share Weighted average number of shares of common stock outstanding	\$(0.01 265,47) \$(0.01) 9,874 222,968,576
Net loss Other comprehensive loss:	\$(93,463,303) \$(975,08	33) \$(1,628,942)
Currency translation adjustment	(55,154) 833	(2,402)
Comprehensive loss	\$(93,518,457) \$(974,25	50) \$(1,631,344)

See accompanying notes to consolidated financial statements.

CYTOSORBENTS CORPORATION

(a development stage company)

CONSOLIDATED STATEMENT OF CHANGES IN REDEEMABLE CONVERTIBLE PREFERRED STOCK AND STOCKHOLDERS' EQUITY (DEFICIENCY)

Period from December 31, 2013 to March 31, 2014 (Unaudited):

	Series B Redeemable Preferred S	e Convertible tock	Common Stoc	ck	Preferred S	tock A Par	Additional Paid-In	Accumula Other Comprehe	Accum
	Shares	Amount	Shares	Par value	Shares	Value	Capital	Loss	Stage
Balance at December 31, 2013	79,336.54	\$15,246,350	251,319,547	\$251,320	1,759,666	\$1,760	\$91,343,135	\$(55,987)	\$(105,
Stock based compensation - employees, consultants and directors							57,372		
Issuance of common stock for services rendered			750,000	750			89,350		
Issuance of Series A Preferred Stock as dividends					43,994	44	7,691		(7,73
Issuance of Series B Preferred Stock as dividends	1,983.44	\$1,106,781							(1,10
Issuance of common stock for cash			2,483,399	2,483			297,517		

Issuance of common stock - financing	40,800,000	40,800		10,159,200)
Cost of raising capital				(748,545)
Other comprehensive income/(loss): foreign translation adjustment					833
Relative fair value of warrants and beneficial conversion feature in connection with issuance of convertible notes					
Cashless exercise of warrants	2,246,574	2,247		(2,247)
Exercise of stock options	1,426,070	1,426		50,334	
Warrant liability				(862,920)
Net loss					(975,
Balance at March 31, 2014 81,319.98 \$16,353,131	299,025,590	\$299,026	1,803,660 \$1,804	\$ \$ 100,390,88	37 \$(55,154) \$(107,

See accompanying notes to consolidated financial statements.

5

CYTOSORBENTS CORPORATION

(a development stage company)

CONSOLIDATED STATEMENTS OF CASH FLOWS

	Period from January 22, 1997 (date of inception) to March 31, 2014 (Unaudited)	Three months Ended March 31, 2014 (Unaudited)	Three months ended March 31, 2013 (Unaudited)
Cash flows from operating activities:			
Net loss	\$(93,463,303)	\$(975,083)	\$(1,628,942)
Adjustments to reconcile net loss to net cash used in operating activities:			
Common stock issued as inducement to convert convertible notes payable and accrued interest	3,351,961		
Issuance of common stock to consultant for services	185,568	90,100	
Depreciation and amortization	2,587,962	19,591	14,145
Amortization of debt discount	2,859,758	82,781	178,775
Gain on disposal of property and equipment	(21,663))	
Gain on extinguishment of debt	(216,617)	·	
Interest expense paid with Series B Preferred Stock in connection with conversion of notes payable	3,147	_	
Abandoned patents	183,556		
Bad debts - employee advances	255,882		
Contributed technology expense	4,550,000		
Consulting expense	237,836		
Management unit expense	1,334,285		
Expense for issuance of warrants	533,648		
Expense for issuance of options	3,082,497	57,372	225,900
Amortization of deferred compensation	74,938		
Penalties in connection with non-registration event	361,496		
Change in warrant liability	(316,200)	(316,200)	
Changes in operating assets and liabilities:			
Grants and accounts receivable	(327,321)	125,696	(62,825)
Inventories	(146,523)	99,085	127,112
Prepaid expenses and other current assets	(464,579)	412,281	381,851
Other assets	(53,895)		(9,442)
Accounts payable and accrued expenses	2,983,816	(240,736)	(36,035)
Accrued interest expense	1,823,103	—	_

Deferred revenue	117,364	(154,995)		
Net cash used by operating activities	(70,483,284)	(800,108)	(809,461)
~ . ~				
Cash flows from investing activities:				
Proceeds from sale of property and equipment	32,491			
Purchases of property and equipment	(2,480,864)	(21,370)	(2,186)
Patent costs	(680,727)	(4,541)		
Purchases of short-term investments	(5,138,607)	(4,745,000)		
Proceeds from sale of short-term investments	393,607			
Loan receivable	(1,632,168)		_	
Not each used by investing activities	(9,506,268)	(4,770,911)	(2,186)
Net cash used by investing activities	(9,300,208)	(4,770,911)	(2,100)
Cash flows from financing activities:				
Proceeds from issuance of preferred stock, net of related issuance costs	9,579,040			
Equity contributions - net of fees incurred	62,423,223	9,751,455	450,000	
Proceeds from borrowings	13,731,881			
Proceeds from subscription receivables	499,395			
Proceeds from exercise of stock options	87,700	51,760		
Proceeds from exercise of warrants	139,526	—	—	
Not each provided by financing activities	96 460 765	0 902 215	450.000	
Net cash provided by financing activities	86,460,765	9,803,215	450,000	`
Effect of exchange rates on cash	(55,154)	833	(2,402)
Net change in cash and cash equivalents	6,416,059	4,233,029	(364,049)
Cash and cash equivalents - beginning of period	_	2,183,030	1,729,344	
Cash and cash equivalents - end of period	\$6,416,059	\$6,416,059	\$1,365,295	

See accompanying notes to consolidated financial statements.

Supplemental disclosure of cash flow information:

Cash paid during the period for interest	\$590,189	\$—	\$—
Supplemental schedule of noncash investing and financing activities:			
Debt discount in connection with issuance of convertible debt	\$1,975,322	\$—	\$—
Fair value of warrant liability upon issuance Fair value of shares issued as costs of raising capital	862,920 \$640,270	862,920 \$7,137	\$10,413
Note payable principal and interest conversion to equity	\$13,175,491	\$—	\$1,226,042
Issuance of member units for leasehold improvements	\$141,635	\$—	\$—
Issuance of management units in settlement of cost of raising capital	\$437,206	\$—	\$—
Change in fair value of management units for cost of raising capital	\$278,087	\$—	\$—
Exchange of loan receivable for member units	\$1,632,168	\$—	\$—
Issuance of equity in settlement of accounts payable	\$1,614,446	\$—	\$—
Issuance of common stock in exchange for stock subscribed	\$399,395	\$—	\$—
Costs paid from proceeds in conjunction with issuance of common stock and preferred stock	\$1,516,608	\$748,545	\$—
Preferred stock dividends	\$14,432,071	\$1,114,516	\$586,417
Net effect of conversion of common stock to preferred stock prior to merger	\$559	\$—	\$—

During the three months ended March 31, 2014 and 2013, no Series B Preferred Shares were converted into shares of Common Stock, respectively. During the three months ended March 31, 2014 and 2013, no Series A Preferred Shares were converted into shares of Common Stock, respectively. For the period from January 22, 1997 (date of inception) to March 31, 2014, 22,784.49 Series B Preferred Shares and 9,558,112 Series A Preferred Shares were converted into 62,912,304 and 43,728,457 shares of Common Stock, respectively.

See accompanying notes to consolidated financial statements.

CytoSorbents Corporation

Notes to Consolidated Financial Statements

(UNAUDITED)

March 31, 2014

1.

BASIS OF PRESENTATION

The accompanying unaudited condensed consolidated financial statements have been prepared in accordance with the requirements of Form 10-Q of the Securities and Exchange Commission (the "Commission") and include the results of CytoSorbents Corporation (the "Parent"), CytoSorbents, Inc., its wholly-owned operating subsidiary (the "Subsidiary"), and CytoSorbents Europe GmbH, its wholly-owned European subsidiary (the "European Subsidiary"), collectively referred to as "the Company."

Accordingly, certain information and footnote disclosures required in financial statements prepared in accordance with accounting principles generally accepted in the United States of America have been condensed or omitted. Interim statements are subject to possible adjustments in connection with the annual audit of the Company's accounts for the year ended December 31, 2014. In the opinion of the Company's management, the accompanying unaudited consolidated financial statements contain all adjustments (consisting only of normal recurring adjustments) which the Company considers necessary for the fair presentation of the Company's consolidated financial position as of March 31, 2014 and the results of its operations and cash flows for the three month periods ended March 31, 2014 and 2013, and for the period January 22, 1997 (date of inception) to March 31, 2014. Results for the three months ended are not necessarily indicative of results that may be expected for the entire year. The unaudited condensed consolidated financial statements should be read in conjunction with the audited financial statements of the Company and the notes thereto as of and for the year ended December 31, 2013 as included in the Company's Form 10-K filed with the Commission on March 31, 2014.

The accompanying consolidated financial statements have been prepared on a going concern basis, which contemplates the realization of assets and satisfaction of liabilities in the normal course of business. The Company has experienced negative cash flows from operations since inception and has a deficit accumulated during the development stage at March 31, 2014 of \$107,895,374. The Company is not currently generating significant revenue and is dependent on the proceeds of present and future financings to fund its research, development and commercialization program. The Company currently has adequate funding for more than the next twelve months of operations, however, it may have to raise additional capital to fund future operations. Although the Company has historically been successful in raising additional capital through equity and debt financings, there can be no assurance that the Company will be successful in raising additional capital in the future or that it will be on favorable terms. Furthermore, if the Company is successful in raising the additional financing, there can be no assurance that the amount will be sufficient to complete the Company's plans. These matters raise substantial doubt about the Company's ability to continue as a going concern. These consolidated financial statements do not include any adjustments related

to the outcome of this uncertainty.

The Company is a development stage company and has not yet generated significant revenues. Since inception, the Company's expenses relate primarily to research and development, organizational activities, clinical manufacturing, regulatory compliance and operational strategic planning. Although the Company has made advances on these matters, there can be no assurance that the Company will continue to be successful regarding these issues, nor can there be any assurance that the Company will successfully implement its long-term strategic plans.

2. PRINCIPAL BUSINESS ACTIVITY AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES:

Nature of Business

The Company, through its subsidiary CytoSorbents, Inc., is engaged in the research, development and commercialization of medical devices with its platform blood purification technology incorporating a proprietary adsorbent polymer technology. The Company, through CytoSorbents Europe, GmbH, its European subsidiary, has commenced initial sales and marketing related operations for the CytoSorb® device in the European Union. The Company is focused on developing this technology for multiple applications in the medical field, specifically to provide improved blood purification for the treatment of acute and chronic health complications associated with blood toxicity. In March 2011, the Company received CE Mark approval for its CytoSorb® device. As of March 31, 2014, the Company had only limited commercial operations and, accordingly, is in the development stage. The Company has yet to generate any significant revenue and has no assurance of future revenue.

The technology is based upon biocompatible, highly porous polymer sorbent beads that are capable of extracting unwanted substances from blood and other bodily fluids. The technology is protected by 32 issued U.S. patents with multiple patent applications pending both in the United States and internationally. Our intellectual property consists of composition of matter, materials, methods of production systems incorporating the technology, and multiple medical uses with expiration dates ranging from 3 to 12 years.

Principles of Consolidation

The consolidated financial statements include the accounts of CytoSorbents Corporation, the Parent, and its wholly-owned subsidiaries, CytoSorbents, Inc. and CytoSorbents Europe GmbH. All significant intercompany transactions and balances have been eliminated in consolidation.

Development Stage Corporation

The accompanying consolidated financial statements have been prepared in accordance with the provisions of accounting and reporting by development stage enterprises.

Cash and Cash Equivalents

The Company considers all highly liquid investments purchased with an original maturity of three months or less to be cash equivalents.

Grants and Accounts Receivable

Grants receivable represent amounts due from United States government agencies. Accounts receivable are unsecured, non-interest bearing customer obligations due under normal trade terms. The Company sells its devices to various hospitals and distributors. The Company performs ongoing credit evaluations of customers' financial condition. Management reviews accounts receivable periodically to determine collectability. Balances that are determined to be uncollectible are written off to the allowance for doubtful accounts. The allowance for doubtful accounts contains a general accrual for estimated bad debts and had a balance of zero at March 31, 2014 and December 31, 2013.

Short-Term Investments

Short-term investments include certificates of deposit with original maturities of greater than three months.

Inventories

Inventories are valued at the lower of cost or market. At March 31, 2014 and December 31, 2013 the Company's inventory was comprised of finished goods, which amounted to \$16,863 and \$107,098, respectively, work in process which amounted to \$99,455 and \$100,528, respectively and raw materials, which amounted to \$30,205 and \$37,982, respectively. Devices used in clinical trials or for research and development purposes are removed from inventory and charged to research and development expenses at the time of their use.

Property and Equipment

Property and equipment are recorded at cost less accumulated depreciation. Depreciation of property and equipment is provided for by the straight-line method over the estimated useful lives of the related assets. Leasehold improvements are amortized over the lesser of their economic useful lives or the term of the related leases. Gains and losses on depreciable assets retired or sold are recognized in the statements of operations in the year of disposal. Repairs and maintenance expenditures are expensed as incurred.

Patents

Legal costs incurred to establish and successfully defend patents are capitalized. When patents are issued, capitalized costs are amortized on the straight-line method over the related patent term. In the event a patent is abandoned, the net book value of the patent is written off.

Impairment or Disposal of Long-Lived Assets

The Company assesses the impairment of patents and other long-lived assets under accounting standards for the impairment or disposal of long-lived assets whenever events or changes in circumstances indicate that the carrying value may not be recoverable. For long-lived assets to be held and used, the Company recognizes an impairment loss only if its carrying amount is not recoverable through its undiscounted cash flows and measures the impairment loss based on the difference between the carrying amount and fair value.

Warrant Liability

The Company recognizes the fair value of the warrants as of the date of the warrant grant using the binomial lattice valuation model. At each subsequent reporting date, the company again measures the fair value of the warrants, and records a change to the warrant liability as appropriate, and the change is reported in the statement of operations.

Revenue Recognition

Product Sales: Revenues from sales of products are recognized at the time of delivery when title and risk of loss passes to the customer. Recognition of revenue also requires reasonable assurance of collection of sales proceeds and completion of all performance obligations.

Grant Revenue: Revenue from grant income is based on contractual agreements. Certain agreements provide for reimbursement of costs, while other agreements provide for reimbursement of costs and an overhead margin. Revenues are recognized when milestones have been achieved and revenues have been earned. Costs are recorded as incurred. Costs subject to reimbursement by these grants have been reflected as costs of revenue.

Deferred Revenue: The Company defers revenue that has been received but not yet earned on government contracts and product sales. This revenue will be recognized as income in the period in which the revenue is earned. All deferred revenue is expected to be earned within a one year of the balance sheet date.

Research and Development

All research and development costs, payments to laboratories and research consultants are expensed when incurred.

Advertising Expenses

Advertising costs are charged to activities when incurred. Advertising expenses amounted to approximately \$116,000 and \$57,000 for the three months ended March 31, 2014 and 2013, respectively and is included in selling, general, and administrative expenses on the consolidated statement of operations.

Income Taxes

Income taxes are accounted for under the asset and liability method prescribed by accounting standards for accounting for income taxes. Deferred income taxes are recorded for temporary differences between financial statement carrying amounts and the tax basis of assets and liabilities. Deferred tax assets and liabilities reflect the tax rates expected to be in effect for the years in which the differences are expected to reverse. A valuation allowance is provided if it is more likely than not that some or all of the deferred tax asset will not be realized. Under Section 382 of the Internal Revenue Code the net operating losses generated prior to the reverse merger may be limited due to the change in ownership. Additionally, net operating losses generated subsequent to the reverse merger may be limited in the event of changes in ownership.

The Company follows accounting standards associated with uncertain tax positions. The Company had no unrecognized tax benefits at March 31, 2014 or December 31, 2013. The Company files tax returns in the U.S. federal and state jurisdictions. The Company currently has no open years prior to December 31, 2010 and has no income tax related penalties or interest for the periods presented in these financial statements.

10

The Company's European subsidiary, CytoSorbents Europe GmbH annually files a corporate tax return, VAT return and a trade tax return in Germany.

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities. Actual results could differ from these estimates. Significant estimates in these financials are the valuation of options granted, the valuation of preferred shares issued as stock dividends, valuation methods used to determine the fair value of the warrant liability, and valuation methods used in determining any debt discount associated with convertible securities.

Concentration of Credit Risk

The Company maintains cash balances, at times, with financial institutions in excess of amounts insured by the Federal Deposit Insurance Corporation. Management monitors the soundness of these institutions in an effort to minimize its collection risk of these balances.

As of March 31, 2014, one U.S. Government agency accounted for approximately 18.2% of outstanding grant and accounts receivable. At December 31, 2013, one U.S. Government agency accounted for approximately 66 percent of outstanding accounts receivable. For the three months ended March 31, 2014, approximately 46.2% of revenues were from two U.S. government agencies, and no other agency, distributor, or direct customer represented more than 10% of the Company's revenue. For the three months ended March 31, 2013, approximately 52.6% of revenue was from one U.S. government grant agency.

Financial Instruments

The carrying values of cash and cash equivalents, short-term investments, accounts payable, notes payable, and other debt obligations approximate their fair values due to their short-term nature.

Basic EPS is computed by dividing income (loss) available to common stockholders by the weighted average number of common shares outstanding during the period. Diluted EPS gives effect to all dilutive potential common shares outstanding during the period. The computation of Diluted EPS does not assume conversion, exercise or contingent exercise of securities that would have an anti-dilutive effect on earnings (See Note 7).

Stock-Based Compensation

The Company accounts for its stock-based compensation under the recognition requirements of accounting standards for accounting for stock-based compensation, for employees and directors whereby each option granted is valued at fair market value on the date of grant. Under these accounting standards, the fair value of each option is estimated on the date of grant using the Black-Scholes option pricing model.

The Company also follows the guidance of accounting standards for accounting for equity instruments that are issued to other than employees for acquiring, or in conjunction with selling, goods or services for equity instruments issued to consultants.

Effects of Recent Accounting Pronouncements

There have been no recently issued accounting standards, which would have an impact on the Company's financial statements.

11

Shipping and Handling Costs

The costs of shipping product to customers and distributors is typically borne by the customer or distributor. The Company records other shipping and handling costs in Research and Development. Total freight costs amounted to approximately \$24,000 and \$10,000 for the three months ended March 31, 2014 and March 31, 2013 respectively.

3.

CONVERTIBLE NOTES

On September 30, 2013 (the "September Closing Date"), the Company issued convertible notes to certain accredited investors (the "September Purchasers"), whereby the Company agreed to sell and the September Purchasers agreed to purchase the convertible notes in the aggregate principal amount of \$745,000 (the "September Notes"). The September Notes mature one (1) year from the September Closing Date (the "September Maturity Date"), bear interest at an annual rate of 8%, and automatically convert into shares of the Company's common stock, \$0.001 par value per share (the "Common Stock"), at a conversion price of \$0.10 at maturity or earlier at the option of the September Purchaser. Full conversion of the principal value of the September Notes, the Company issued warrants to purchase shares of Common Stock, providing 50% coverage, exercisable at \$0.125 per share (the "September Warrants").

On June 21, 2013 (the "June Closing Date"), the Company issued convertible notes to certain accredited investors (the "June Purchasers"), whereby the Company agreed to sell and the June Purchasers agreed to purchase the convertible notes in the aggregate principal amount of \$1,098,000 (the "June Notes"). The June Notes mature one (1) year from the June Closing Date (the "June Maturity Date"), bear interest at an annual rate of 8%, and automatically convert into shares of the Company's common stock, \$0.001 par value per share (the "Common Stock"), at a conversion price of \$0.125 at maturity or earlier at the option of the June Purchaser. Full conversion of the principal value of the June Notes, would result in the issuance of 8,784,000 shares of Common Stock. In connection with the issuance of the June Notes, the Company issued warrants to purchase shares of Common Stock, providing 50% coverage, exercisable at \$0.15 per share (the "June Warrants").

At March 31, 2014, the Company had convertible notes ("Convertible Notes") totaling approximately \$1,727,000 net of debt discount of approximately \$116,000. The Convertible Notes stipulate that in the event at any time during the term of the Convertible Note, the Company closes on any debt or equity financing in an aggregate amount greater than or equal to \$750,000, the noteholders will have the right to exchange the note for the equivalent dollar amount of securities sold in the new financing. The Company is not required to repay the Convertible Notes in cash, and there are no registration rights on the common stock underlying the Convertible Notes or Warrants.

The Company allocates the proceeds associated with the issuance of promissory notes based on the relative fair value of the promissory notes and warrants. Additionally, the Company evaluates if the embedded conversion option results

in a beneficial conversion feature by comparing the relative fair value allocated to the promissory notes to the market value of the underlying Common Stock subject to conversion. In connection with the promissory note issuances during the years ended December 31, 2013, the Company received proceeds of \$1,843,000. The Company allocated the proceeds in accordance with FASB Codification Topic 470 based on the related fair value as follows: \$1,511,883 was allocated to the promissory notes and \$171,012 to the warrants. Additionally, the embedded conversion feature resulted in a beneficial conversion feature in the amount of \$160,105. The value assigned to the warrants resulting from the relative fair value calculation as well as the value of the beneficial conversion feature is recorded as a debt discount and is presented in the consolidated balance sheets. The debt discount is being amortized to interest expense over the term of the promissory notes. During the three months ended March 31, 2014 and 2013, debt discount of approximately \$83,000 and \$179,000, respectively, was charged to interest expense.

STOCKHOLDERS' EQUITY (DEFICIT)

On March 7, 2014, the Company entered into subscription agreements with certain investors providing for the issuance and sale by the Company (the "Offering") of 40,800,000 units (the "Units") for an aggregate purchase price of \$10,200,000. Each Unit is comprised of one share of the Company's Common Stock, priced at \$0.25 per share, par value \$0.001 per share and a warrant to purchase 0.50 shares of Common Stock at an exercise price of \$0.3125 per share. The warrants are convertible into a total of 20,400,000 shares of common stock. Each warrant is exercisable for a period of five (5) years beginning on March 11, 2014, the date of the closing of the sale of these securities, and are only exercisable for cash and are only exercisable if there is an effective registration statement registering the warrants and shares underlying the warrants. The common stock underlying these warrants were registered in the registration statement on Form S-1 filing (File No. 333-193053) which was declared effective by the securities and Exchange Commission on February 14, 2014 and an additional registration statement on Form S-1 (File No. 333-194394).

12

4.

The Company received net proceeds from the Offering of approximately \$9,451,000 million. The net proceeds received by the Company from the Offering will be used for building additional sales and marketing infrastructure, clinical studies, working capital and general corporate purposes.

The Company conducted the Offering pursuant to a registration statement on Form S-1 (File No. 333-193053) which was declared effective by the Securities and Exchange Commission on February 14, 2014 and an additional registration statement on Form S-1 (File No. 333-194394) to register an additional amount of securities having a proposed maximum aggregate offering price of \$2,762,500, which increased the total registered amount to \$16,575,000 assuming the full cash exercise of the warrants for cash. The Company filed a final prospectus on March 7, 2014, disclosing the final terms of the Offering.

In connection with the Offering, on March 7, 2014, the Company entered into a placement agency agreement with Brean Capital, LLC pursuant to which the placement agent agreed to act as the Company's exclusive placement agent for the Offering and sale of the Units.

In connection with the successful completion of the Offering, the placement agent received an aggregate cash placement agent fee equal to 6% of the gross proceeds of the sale of the Units in the Offering and a warrant to purchase 1,224,000 shares of Common Stock at an exercise price of \$0.30 per share exercisable for five years from the effective date of the placement agency agreement. The placement agent warrant contains piggy-back registration rights which expire on the fifth anniversary of the effective date of the registration statement. The Company has also agreed to reimburse the placement agent for actual out-of-pocket expenses up to a maximum of 2% of gross proceeds from the transaction. The Company also granted the placement agent a right of first refusal to participate in any subsequent offering or placement of its securities that takes place within twelve months following the effective date of the registration statement.

During the three months ended March 31, 2014, the Company recorded non-cash stock dividends totaling \$1,114,516 in connection with the issuance of 1,983.44 shares of Series B Preferred Stock and 43,994 shares of Series A Preferred Stock as a stock dividend to its preferred shareholders as of March 31, 2014.

During the three months ended March 31, 2014, the Company incurred stock-based compensation expense due to the issuance of stock options, and amortization of unvested stock options. The aggregate expense for the three months ended March 31, 2014 is approximately \$57,000, of which approximately \$52,000 was recorded in general and administrative expenses and approximately \$5,000 was recorded as research and development expenses

The summary of the stock option activity for the three months ended March 31, 2014 is as follows:

		Weighted	
		Average	Weighted
		Exercise	Average
		Price	Remaining
	Shares	per Share	Life (Years)
Outstanding, January 1, 2014	47,923,642	\$ 0.20	5.1
Granted	14,675,000	\$ 0.19	9.96
Cancelled	(5,395,250)	\$ 0.12	8.23
Exercised	(1,441,300	\$ 0.04	4.09
Outstanding March 31, 2014	55,762,092	\$ 0.21	6.74

The fair value of each stock option was estimated using the Black-Scholes pricing model which takes into account as of the grant date the exercise price (ranging from \$0.195 to \$0.24 per share) and expected life of the stock option (ranging from 5-10 years), the current price of the underlying stock and its expected volatility (approximately 28%), expected dividends (0%) on the stock and the risk free interest rate (0.8 to 1.7%) for the term of the stock option.

13

At March 31, 2014, the aggregate intrinsic value of options outstanding and currently exercisable amounted to approximately \$2,933,000.

The summary of the status of the Company's non-vested options for the three months ended March 31, 2014 is as follows:

	Shares	Weighted Average Grant Date Fair Value
Non-vested, January 1, 2014 Granted	13,418,000 14,675,000	
Cancelled	(4,561,250)	
Vested	(537,250)	\$ 0.014
Non-vested, March 31, 2014	22,994,500	\$ 0.049

As of March 31, 2014, approximately \$186,000 of total unrecognized compensation cost related to stock options. In March 2014, the Board of Directors set aside a pool of 14,010,000 options to be awarded to the Company's employees if the Company achieves certain specific, predetermined milestones. The grant date fair value of these unvested options amounts to approximately \$2,397,500. Due to the uncertainty over whether these options will vest, which only occurs if the Company meets the predetermined milestones, no charge for these options has been recorded in the consolidated statements of operations for the three months ended March 31, 2014. The Company will evaluate on an ongoing basis the probability and likelihood of any of these performance milestones being achieved and will accrue charges as it becomes likely that they will be achieved.

As of March 31, 2014, the Company has the following warrants to purchase common stock outstanding:

Number of Shares	Warrant Exercise	Warrant
To be Purchased	Price per Share	Expiration Date
397,825	\$ 0.0362	September 30, 2014
1,750,000	\$ 0.1000	August 16, 2015
1,600,000	\$ 0.1250	August 16, 2015
1,333,333	\$ 0.1500	August 16, 2015
490,000	\$ 0.1000	October 22, 2015

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196,000	\$	0.1250	October 22, 2015		
163,333	\$	0.1500	October 22, 2015		
500,000	\$	0.1000	November 19, 2015		
200,000	\$	0.1250	November 19, 2015		
166,667	\$	0.1500	November 19, 2015		
3,350,000	\$	0.1000	February 15, 2016		
1,540,000	\$	0.1250	February 15, 2016		
1,416,666	\$	0.1500	February 15, 2016		
240,125	\$	1.2500	October 24, 2016		
1,166,667	\$	0.1750	February 10, 2017		
4,392,000	\$	0.1500	June 21, 2018		
3,725,000	\$	0.1250	September 30, 2018		
20,400,000	\$	0.3125	March 11, 2019		
1,224,000	\$	0.3000	March 11, 2019		
44,251,616					

In addition, during the three months ended March 31, 2014, the Company issued 750,000 shares of Common Stock to a vendor for consulting services, 1,441,300 options were exercised for 1,426,070 shares of Common Stock, and 2,246,574 warrants were exercised for a like amount of shares of Common Stock.

In December 2011, the Company terminated a purchase agreement with Lincoln Park Capital Fund, LLC ("LPC") and executed a new purchase agreement (the "New Purchase Agreement"), and a registration rights agreement with LPC. Under the New Purchase Agreement, LPC is obligated, under certain conditions, to purchase from the Company up to \$8.5 million of our Common Stock, from time to time over a thirty-two (32) month period.

The Company has the right, but not the obligation, to direct LPC to purchase up to \$8,500,000 of its Common Stock in amounts up to \$50,000 as often as every two business days under certain conditions. The Company can also accelerate the amount of its Common Stock to be purchased under certain circumstances. No sales of Common Stock may occur at a purchase price below \$0.10 per share or without a registration statement having been declared effective. The purchase price of the Common Stock will be based on the market prices of our Common Stock at the time of sale as computed under the New Purchase Agreement without any fixed discount. The Company may at any time at its sole discretion terminate the New Purchase Agreement without fee, penalty or cost upon one business days' notice.

There was no up-front commitment fee paid to LPC for entering into the New Purchase Agreement. In the event the Company directs LPC to purchase up to \$8,500,000 of its Common Stock, the Company is obligated to issue up to an additional 1,634,615 commitment fee shares of Common Stock on a pro rata basis. LPC may not assign any of its rights or obligations under the New Purchase Agreement.

During the three months ended March 31, 2014 the Company received approximately \$300,000 as proceeds from the sale of 2,425,709 shares of Common Stock per the terms of the New Purchase Agreement with LPC at an average price of approximately \$0.124 per share of Common. Per the terms of the New Purchase Agreement the Company also issued an additional 57,690 shares of Common Stock as additional Commitment Fee shares.

As of March 31, 2014, \$2,400,000 remained available under the New Purchase Agreement with LPC. The New Purchase Agreement terminates in August 2014.

5.WARRANT LIABILITY

In connection with its March 11, 2014 financing, the Company issued 20,400,000 warrants. The Company recognizes these warrants as liabilities at their fair value on the date of grant, then measures the fair value of the warrants on each reporting date, and records a change to the warrant liability as appropriate. The warrants have certain pricing

provisions which apply if the Company sells or issues common stock or common stock equivalents at a price that is less than the exercise price of the warrants, over the life of the warrants, excluding certain exempt issuances.

The Company recognized an initial warrant liability for the warrants issued in connection with the registered public offering completed in March 2014. The initial warrant liability recognized on the related warrants totaled \$862,920, which was based on the March 11, 2014 five-day weighted average closing price of a share of our Common Stock of \$0.24. On March 31, 2014, the five day weighted average closing price of was \$0.202. Due to the fluctuations in the market value of our common stock from March 11, 2014 through March 31, 2014, we recorded a change in the fair value of the warrant liability of \$316,200 during the three months ended March 31, 2014.

The assumptions used in connection with the valuation of warrants issued utilizing the binomial lattice valuation model were as follows:

	March 31, 2014	Initial Measurement March 11, 2014	
Number of shares underlying the warrants	20,400,000	20,400,000	
Exercise price	\$0.3125	\$0.3125	
Volatility	28.3	% 28.3	%
Risk-free interest rate	1.73	% 1.62	%
Expected dividend yield	0	0	
Expected warrant life (years)	4.95	5	
Stock Price	\$0.2020	\$0.2400	

6. COMMITMENTS AND CONTINGENCIES

Employment Agreements

The Company is currently in the process of renewing employment agreements with certain key executives.

Litigation

We are from time to time subject to claims and litigation arising out of the ordinary course of business. We intend to defend vigorously against any future claims and litigation. We are not currently a party to any legal proceedings.

Royalty Agreements

Pursuant to an agreement dated August 11, 2003, an existing investor agreed to make a \$4 million equity investment in the Company. These amounts were received by the Company in 2003. In connection with this agreement, the Company granted the investor a future royalty of 3% on all gross revenues received by the Company from the sale of its CytoSorb® device. For the three months ended March 31, 2014 the Company has recorded royalty costs of approximately \$17,000.

License Agreements

In September 2006, the Company entered into a license agreement which provides the Company the exclusive right to use its patented technology and proprietary know how relating to adsorbent polymers for a period of 18 years. Under the terms of the agreement, the Company has agreed to pay royalties of 2.5% to 5% on the sale of certain of its products if and when those products are sold commercially for a term not greater than 18 years commencing with the first sale of such product. For the three months ended March 31, 2014 per the terms of the license agreement the Company has recorded royalty costs of approximately \$14,000.

Warrant Agreement

As inducement to invest additional funds in the private placement of Series B Preferred Stock, additional consideration was granted to the participants of the Series B Preferred Stock offering in the event that litigation is commenced against CytoSorbents prior to June 30, 2018, claiming patent infringement on certain of the Company's issued patents. In the event this litigation arises the Company may be required to issue warrants to purchase in the aggregate up to a maximum of ten million shares of Common Stock subject to certain adjustments. Through March 31, 2014 no such litigation has arisen and due to the deemed low probability of this potential outcome; the Company has not booked a contingent liability for this agreement.

16

7.NET LOSS PER SHARE

Basic loss per share and diluted loss per share for the three months ended March 31, 2014 and 2013 have been computed by dividing the net loss for each respective period by the weighted average number of shares outstanding during that period. All outstanding warrants and options representing approximately 100,014,000 and 60,895,000 incremental shares at March 31, 2014 and 2013, respectively, as well as shares issuable upon conversion of Series A and Series B Preferred Stock representing approximately 226,211,000 and 205,496,000 incremental shares at March 31, 2014 and 2013, respectively, as well as potential shares issuable upon Note conversion into Common Stock representing approximately 16,234,000 and 0- incremental shares at March 31, 2014 and 2013, respectively, have been excluded from the computation of diluted loss per share as they are anti-dilutive.

8.SUBSEQUENT EVENTS

The Company has evaluated subsequent events occurring after the balance sheet date through the date of the issuance of this report.

In April, 2014, we announced distribution of CytoSorb[®] in the Middle East, including Saudi Arabia, the United Arab Emirates, Kuwait, Qatar, Bahrain, and Oman (the Gulf Cooperation Council or GCC) and Yemen, Iraq, and Jordan through an exclusive agreement with Techno Orbits. This multi-year agreement is subject to annual minimum guaranteed orders of CytoSorb[®] to maintain exclusivity.

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

This discussion of our financial condition and the results of operations should be read together with the financial statements, including the notes contained elsewhere in this Quarterly Report on Form 10-Q, and the financial statements, including the notes thereto, contained in our Annual Report on Form 10-K for the year ended December 31, 2013, as filed on March 31, 2014.

This report includes "forward-looking statements" within the meaning of the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. These forward-looking statements include, but are not limited to, statements about our plans, objectives, representations and contentions and are not historical facts and typically are identified by use of terms such as "may," "should," "could," "expect," "plan," "anticipate," "believe," "estimate," "predict," "potential," "co similar words, although some forward-looking statements are expressed differently. You should be aware that the forward-looking statements included herein represent management's current judgment and expectations, but our actual results, events and performance could differ materially from those in the forward-looking statements.

Factors which could cause or contribute to such differences include, but are not limited to, the risks discussed in our Annual Report on Form 10-K, as updated by the risks reported in our Quarterly Reports on Form 10-Q, and in the press releases and other communications to shareholders issued by us from time to time which attempt to advise interested parties of the risks and factors which may affect our business. We undertake no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events, or otherwise, other than as required under the Federal securities laws.

These unaudited condensed consolidated financial statements and management's discussion should be read in conjunction with the audited consolidated financial statements of the Company and the notes thereto as of and for the year ended December 31, 2013 as included in the Company's Annual Report on Form 10-K for the year ended December 31, 2013 filed with the Securities and Exchange Commission (the "Commission") on March 31, 2014.

Overview

CytoSorbents Corporation is a development stage critical care focused immunotherapy company using blood purification to modulate inflammation –with the goal of preventing or treating multiple organ failure in life-threatening illnesses. The technology is based upon biocompatible, highly porous polymer sorbent beads that are capable of extracting unwanted substances from blood and other bodily fluids. The technology is protected by 32 issued U.S. patents with multiple patent applications pending both in the United States and internationally. Our intellectual property consists of composition of matter, materials, methods of production, systems incorporating the technology and multiple medical uses with expiration dates ranging from 3 to 12 years.

In March 2011, we received E.U. regulatory approval under the CE Mark and Medical Devices Directive for our flagship product, CytoSorb®, as an extracorporeal cytokine filter indicated for use in clinical situations where cytokines are elevated. The goal of the CytoSorb® is to prevent or treat organ failure by reducing cytokine storm and the potentially deadly systemic inflammatory response syndrome in diseases such as sepsis, trauma, burn injury, acute respiratory distress syndrome, pancreatitis, liver failure, and many others. Organ failure is the leading cause of death in the intensive care unit, and remains a major unmet medical need, with little more than supportive care therapy (e.g. mechanical ventilation, dialysis, vasopressors, fluid support, etc.) as treatment options. By potentially preventing or treating organ failure, CytoSorb® may improve clinical outcome, including survival, while reducing the need for costly intensive care unit treatment, thereby potentially saving significant healthcare costs.

Our CE Mark enables CytoSorb® to be sold throughout the entire European Union. In addition, many countries outside the E.U. accept CE Mark approval for medical devices, but may also require registration with or without additional clinical studies. The broad approved indication enables CytoSorb® to be used "on-label" in diseases where cytokines are elevated including, but not limited to, critical illnesses such as those mentioned above, autoimmune disease flares, cancer cachexia, and many other conditions where cytokine-induced inflammation plays a detrimental role.

As part of the CE Mark approval process, we completed our randomized, controlled, European Sepsis Trial among 14 trial sites in Germany in 2011, with enrollment of 100 patients with sepsis and respiratory failure. The trial established that CytoSorb® was safe in this critically-ill population, and that it was able to control cytokine storm and broadly reduce key cytokines.

The Company plans to do larger, prospective studies in septic patients in the future to confirm the European Sepsis Trial findings.

In addition to CE Mark approval, CytoSorbents also achieved ISO 13485:2003 Full Quality Systems certification, an internationally recognized quality standard designed to ensure that medical device manufacturers have the necessary comprehensive management systems in place to safely design, develop, manufacture and distribute medical devices in the European Union. CytoSorbents manufactures CytoSorb® at its manufacturing facilities in New Jersey for sale in the E.U. and for additional clinical studies. The Company also established a reimbursement path for CytoSorb® in Germany and Austria.

From September 2011 through June 2012, the Company began a controlled market release of CytoSorb® in select geographic territories in Germany with the primary goal of preparing for commercialization of CytoSorb® in Germany in terms of manufacturing, reimbursement, logistics, infrastructure, marketing, contacts, and other key issues.

In late June 2012, following the establishment of our European subsidiary, CytoSorbents Europe GmbH, CytoSorbents began the commercial launch of CytoSorb® in Germany with the hiring of Dr. Christian Steiner as Vice President of Sales and Marketing and three additional sales representatives who joined the Company and completed their sales training in Q3 2012. The fourth quarter of 2012 represented the first full quarter of direct sales with the full sales team in place. During this period, we expanded our direct sales efforts to include both Austria and Switzerland. At the end of Q1 2014, we had more than 100 key opinion leaders, or KOLs, in critical care, cardiac surgery, and blood purification who were either using CytoSorb® or committed to using CytoSorb® in the near future. In addition, we now have more than 30 investigator initiated studies being planned in Germany, Austria, and the United Kingdom in multiple applications including sepsis, cardiac surgery, lung injury, trauma, pancreatitis, liver failure, kidney failure, and others, with many already enrolling patients. These studies are being supported by our European Director of Scientific Affairs. As of March 1, 2014, we have increased our sales force to include seven direct sales people and two sales support staff. We intend to add more staff to the direct sales and marketing team for 2014.

We have complemented our direct sales efforts with sales to distributors and/or corporate partners. In 2013, we reached agreement with distributors in the United Kingdom, Ireland, Turkey, Russia, and the Netherlands. In September 2013, we entered into a strategic partnership with Biocon Ltd., Asia's largest biotech company with an initial distribution agreement for India and select emerging markets, under which Biocon will have the exclusive commercialization rights for CytoSorb®. In April, 2014, we announced distribution of CytoSorb® in the Middle East, including Saudi Arabia, the United Arab Emirates, Kuwait, Qatar, Bahrain, and Oman (the Gulf Cooperation Council or GCC) and Yemen, Iraq, and Jordan through an exclusive agreement with Techno Orbits. We are currently evaluating other potential distributor networks in other major countries where we are either approved to market the device or where CE Mark approval is accepted.

We are currently conducting a dose ranging trial in Germany among eight clinical trial sites to evaluate the safety and efficacy of CytoSorb® when used for longer periods of time. Data from this dosing study is intended to help clinicians with additional treatment options for CytoSorb®, help support the positive clinical data from the Company's first European Sepsis Trial, and help shape the trial protocol for a U.S. based pivotal study. In addition, we will receive additional data from the results of more than thirty investigator-initiated studies in Europe which are either currently underway or planned.

Concurrent with our commercialization plans, the Company intends to conduct or support additional clinical studies in sepsis, cardiac surgery, and other critical care diseases to generate additional clinical data to expend the scope of clinical experience for marketing purposes, to increase the number of treated patients, and to support potential future publications. We are currently conducting a matched pairs analysis, dose ranging trial in Germany amongst eight clinical trial sites to evaluate the safety and efficacy of CytoSorb® when used continuously for 7 days or for 6 hours per day, but up to 14 days. Data from this dosing study are intended to help clinicians with additional treatment options for CytoSorb®, help support the positive clinical data from the Company's first European Sepsis Trial, and help shape the trial protocol for a pivotal sepsis study.

The market focus for CytoSorb® is the prevention or treatment of organ failure in life-threatening conditions, including commonly seen illnesses in the intensive care unit such as infection and sepsis, trauma, burn injury, acute respiratory distress syndrome, or ARDS, and others. Sepsis is a major unmet medical need with no approved products in the U.S. or Europe to treat it. As with other critical care illnesses, multiple organ failure is the primary cause of death in sepsis. When used with standard of care therapy, that includes antibiotics, the goal of CytoSorb® in sepsis is to reduce excessive levels of cytokines and other inflammatory toxins, to help reduce the severe inflammatory

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response syndrome, or SIRS, response and either prevent or treat organ failure.

In addition to the sepsis indication, we intend to continue to foster research in other critical care illnesses where CytoSorb® could be used, such as ARDS, trauma, severe burn injury and acute pancreatitis, or in other acute conditions that may benefit by the reduction of cytokines in the bloodstream. Some examples include the prevention of post-operative complications of cardiac surgery (cardiopulmonary bypass surgery) and damage to organs donated for transplant prior to organ harvest.

Our proprietary hemocompatible porous polymer bead technology forms the basis of a broad technology portfolio. Some of our products include:

CytoSorb® - an extracorporeal hemoperfusion cartridge approved in the E.U. for cytokine removal, with the goal of •reducing SIRS and preventing or treating organ failure.

HemoDefendTM – a development-stage blood purification technology designed to remove contaminants in blood transfusion products. The goal is to reduce transfusion reactions and improve the safety of older blood

ContrastSorb – a development-stage extracorporeal hemoperfusion cartridge designed to remove IV contrast from the •blood of high risk patients undergoing CT imaging with contrast, or interventional radiology procedures such as cardiac catheterization. The goal is to prevent contrast-induced nephropathy

DrugSorb – a development-stage extracorporeal hemoperfusion cartridge designed to remove toxic chemicals from the blood (e.g. drug overdose, high dose regional chemotherapy, etc.)

BetaSorbTM – a development-stage extracorporeal hemoperfusion cartridge designed to remove mid-molecular weight \cdot toxins, such as b2-microglobulin, that standard high-flux dialysis cannot remove effectively. The goal is to improve the efficacy of dialysis or hemofiltration

We have been successful in obtaining technology development contracts and support from agencies in the U.S. Department of Defense, including DARPA, the U.S. Army, and the U.S. Air Force.

In September 2013, the National Heart, Lung, and Blood Institute ("NHLBI"), a division of the National Institutes of Health ("NIH"), awarded the Company a Phase I Small Business Innovation Research ("SBIR") contract to further advance our HemoDefendTM blood purification technology for packed red blood cell ("pRBC") transfusions. The project, entitled "Elimination of blood contaminants from pRBCs using HemoDefendTM hemocompatible porous polymer beads," was \$203,351 over six months. The overall goal of the program was to reduce the risk of potential side effects of blood transfusions, and help to extend the useful life of pRBCs.

In June 2013, we announced that the U.S. Air Force will fund a 30 patient, single site, randomized controlled human pilot study in the United States amongst trauma patients with rhabdomyolysis most commonly associated with trauma. The FDA has approved our Investigational Device Exemption (IDE) application for this study, and the study began in April 2014.

In June 2013, we began work on our previously announced \$1 million Phase II SBIR U.S. Army contract to further develop our technology for the treatment of burn injury and trauma in animal models. This work is supported by the U.S. Army Medical Research and Material Command under an amendment to Contract W81XWH-12-C-0038 and has now received committed funding of \$1.15 million to date.

In August 2012, we were awarded a \$3.8 million contract by the Defense Advanced Research Projects Agency (DARPA) for our "Dialysis-Like Therapeutics" program to treat sepsis. DARPA has been instrumental in funding many of the major technological and medical advances since its inception in 1958, including development of the Internet, the global positioning system ("GPS"), and robotic surgery. The DLT program in sepsis seeks to develop a therapeutic blood purification device that is capable of identifying the cause of sepsis (e.g., cytokines, toxins, pathogens, activated cells) and remove these substances in an intelligent, automated, and efficient manner. Our contract is for advanced technology development of our hemocompatible porous polymer technologies to remove cytokines and a number of pathogen and biowarfare toxins from blood. We are in Year 2 of the program and are currently working with the recently announced systems integrator, Battelle Laboratories, and its subcontractor NxStage Medical, who are responsible for integrating the technology developed by us and others into a final medical device design prototype, and evaluating this device in septic animals and eventually in human clinical trials in sepsis. Our work is supported by DARPA and SSC Pacific under Contract No. N66001-12-C-4199.

Results of Operations

Comparison for the Three Months Ended March 31, 2014 and 2013

Revenues:

For the three months ended March 31, 2014, we generated revenue of approximately \$1,062,000 as compared to revenues of approximately \$371,000 for the three month periods ended March 31, 2013, an increase of 186%. Revenue from product sales was approximately \$569,000 in the three months ended March 31, 2014, as compared to approximately \$176,000 in the three months ended March 31, 2013, an increase of 223%. This increase in sales is the result of the direct sales team in Germany, as well as sales to distributors in other parts of Europe and the Middle East.

Grant revenue was approximately \$491,000 and \$195,000 for the three months ended March 31, 2014 and 2013, respectively.

Cost of Revenue:

For the three months ended March 31, 2014 and 2013 cost of revenue was approximately \$663,000 and \$254,000 respectively. The increase is due to increased sales and expenditures related to progress on grant objectives. Overall blended gross margins were approximately 38%, with product gross margins in excess of 60%.

Research and Development Expense:

Our research and development costs were, approximately \$237,000 for the three months ended March 31, 2014, a decrease of approximately 467,000 from the approximately \$704,000 of research and development expenses for the three months ended March 31, 2013. This is primarily due to net decreases in expenditures related to consulting costs of \$72,000, stock options of \$100,000 as well as the reclassification to cost of goods sold of research and development costs specifically related to grants, which has the effect of reducing the amount of our non-reimbursable research and development costs.

Legal, Financial, and Other Consulting Expense:

Our legal, financial and other consulting costs were approximately \$310,000 for the three months ended March 31, 2014, as compared to approximately \$223,000 for the three months ended March 31, 2013. The \$87,000 increase in legal, financial and other consulting expenses is primarily due to an increase in fees to consultants to secure certain key employees and fees to consultants for investor relations and other advisory services.

Selling, General and Administrative Expense:

Our selling, general and administrative costs were approximately \$1,007,000 for the three months ended March 31, 2014, an increase of approximately \$394,000 over general and administrative costs of approximately \$613,000 for the three months ended March 31, 2013. The increase in selling, general, and administrative expenses was primarily due to hiring of additional personnel for our German-based sales and support team, including increases in commissions and benefits and payroll taxes, resulting in direct cost increases of approximately \$325,000, increases in advertising and marketing costs of approximately \$96,000 and increases in royalty costs of approximately \$21,000, all of which were partially offset by decreases in stock option costs of \$69,000.

Interest Expense:

For the three months ended March 31, 2014 our net interest expense was approximately \$137,000, as compared to net interest expense of approximately \$207,000 for the three months ended March 31, 2013. The decrease is primarily due to a decrease of approximately \$70,000 in non-cash charges associated with the amortization of debt discount, which is presented in the net interest expense category of our statement of operations.

Change in Warrant Liability:

The Company recognizes warrants as liabilities at their fair value on the date of the grant because of price adjustment provisions in the warrants, then measures the fair value of the warrants on each reporting date, and records a change to the warrant liability as appropriate. Our change in warrant liability was \$316,000 and \$0 for the three months ended March 31, 2014 and 2013, respectively. The change in warrant liability was as a result of the change in the fair value of the warrant liability from March 11, 2014 (the date of our \$10,200,000 financing) to March 31, 2014. There was no warrant liability in 2013, and therefore there was no change in warrant expense in 2013.

History of Operating Losses:

We have experienced substantial operating losses since inception. As of March 31, 2014, we had a deficit accumulated during the development stage of \$107,895,374, which included losses of approximately \$975,000 and \$1,629,000 for the three months ended March 31, 2014 and 2013, respectively. Historically, our losses have resulted principally from costs incurred in the research and development of our polymer technology, and general and administrative expenses, which together were \$1,244,000 and \$1,317,000 for the three months ended March 31, 2014 and 2013, respectively.

Liquidity and Capital Resources

Since inception, our operations have been primarily financed through the private placement of our debt and equity securities. At March 31, 2014, we had current assets of approximately \$11,828,000, including cash on hand and short-term investments of approximately \$11,161,000 and current liabilities of approximately \$3,299,000. We believe we have sufficient cash to fund our operations into 2016; however, we may need to raise additional capital to fully fund pivotal trials in the United States and/or Germany. We will be better able to assess this need once the specific protocols are finalized.

In the first quarter of 2014 we received approximately \$9,451,000 in net proceeds in connection with the registered offering of our Common Stock. In addition, we received approximately \$300,000 as proceeds from the sale of 2,425,709 shares of Common Stock pursuant to the New Purchase Agreement with Lincoln Park Capital (See Note 4 of the consolidated financial statements), and received \$458,000 in cash from the sale of our net operating losses to the State of New Jersey.

Off-balance Sheet Arrangements

We have no off-balance sheet arrangements.

Going Concern

The accompanying consolidated financial statements have been prepared on a going concern basis, which contemplates the realization of assets and satisfaction of liabilities in the normal course of business. We have experienced negative cash flows from operations since inception and have a deficit accumulated during the

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development stage at March 31, 2014 of \$107,895,374. We are not currently generating significant revenue and are dependent on the proceeds of present and future financings to fund our research, development and commercialization program. We currently have adequate funding for more than the next twelve months of operations; however, we may have to raise additional capital to fund future operations and/or our clinical trials. Although we have historically been successful in raising additional capital through equity and debt financings, there can be no assurance that we will be successful in raising additional capital in the future or that it will be on favorable terms. Furthermore, if we are successful in raising the additional financing, there can be no assurance that the amount will be sufficient to complete our plans. These matters raise substantial doubt about our ability to continue as a going concern. These consolidated financial statements do not include any adjustments related to the outcome of this uncertainty.

Item 3. Quantitative and Qualitative Disclosures About Market Risk.

Not applicable to smaller reporting companies.

Item 4. Controls and Procedures

Evaluation of Disclosure Controls and Procedures

Pursuant to Rule 13a-15(b) under the Securities Exchange Act of 1934 ("Exchange Act"), we carried out an evaluation, with the participation of our management, including the Company's Chief Executive Officer ("CEO") and Chief Financial Officer ("CFO"), of the effectiveness of our disclosure controls and procedures (as defined under Rule 13a-15(e) under the Exchange Act) as of the end of the period covered by this report. Based upon that evaluation, our CEO and CFO concluded that our disclosure controls and procedures are not effective to ensure that information required to be disclosed by us in the 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 such information is accumulated and communicated to our management, including our CEO and CFO, as appropriate, to allow timely decisions regarding required disclosure.

Additionally, based upon management's assessment, we determined that there were material weaknesses in internal control over financial reporting as of March 31, 2014.

Therefore, our internal controls over financial reporting were not effective as of March 31, 2014 based on the material weaknesses described below:

Lack of an independent audit committee or audit committee financial expert. Although our board of directors (1) serves the function of an audit committee, we have not identified an audit committee financial expert on our board of directors. These factors are counter to corporate governance practices as defined by the various stock exchanges and may lead to less supervision over management.

(2) Need for greater integration, oversight, communication and financial reporting of the books and records of our German subsidiary.

Due to our small size, we were not able to immediately remediate these material weaknesses but we have begun to address these matters. On May 29, 2013, we hired Kathleen P. Bloch, CPA, MBA, as our Chief Financial Officer, and in October 2013, we adopted a Code of Business Conduct and Ethics. We will take additional remedial action to address the remaining material weaknesses in the near future. Notwithstanding the assessment that our Internal Controls over Financial Reporting was not effective and that there were material weaknesses identified herein, we believe that our consolidated financial statements contained in this report fairly present our financial position, results of operations and cash flows for the periods covered thereby in all material respects.

Changes in Internal Controls

There have been no changes in our internal control over financial reporting during the first fiscal quarter that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

23

PART II. OTHER INFORMATION

Item 1. Legal Proceedings

We are from time to time subject to claims and litigation arising in the ordinary course of business. We intend to defend vigorously against any future claims and litigation. We are not currently a party to any legal proceedings.

Item 1A. Risk Factors

We believe there are no changes that constitute material changes from the risk factors previously disclosed in our Annual Report filed on Form 10-K for the year ended December 31, 2013.

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.

Number Description

Certification of Principal Executive Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 302 of Sarbanes Oxley Act of 2002.

31.2

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Certification of Principal Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 302 of Sarbanes Oxley Act of 2002.

Certification of Principal Executive Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of Sarbanes Oxley Act of 2002.

32.1

32.2

Certification of Principal Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of Sarbanes Oxley Act of 2002.

The following materials from CytoSorbents Corporation's Quarterly Report on Form 10-Q for the quarter ended March 31, 2014, formatted in Extensible Business Reporting Language (XBRL): (i) Consolidated Balance Sheets at March 31, 2014 and December 31, 2013, (ii) Consolidated Statements of Operations for the period from January 22, 1997 to March 31, 2014 and for the three months ended March 31, 2014 and March 31, 2013, (iii) Consolidated Statement of Changes in Redeemable Convertible Preferred Stock and of Stockholders' Equity for the period from December 31, 2013 to March 31, 2014, (iv) Consolidated Statements of Cash Flows for the period from January 22, 1997 to March 31, 2014 and for the three months ended March 31, 2014 and March 31, 2013 and (v) Notes to Consolidated Financial Statements.

In accordance with SEC Release 33-8238, Exhibit 32.1 and 32.2 are being furnished and not filed.

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

24

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.

CYTOSORBENTS CORPORATION

Dated: May 14, 2014 By: /s/ Phillip Chan Name: Phillip Chan Title: Chief Executive Officer

(Principal Executive Officer)

Dated: May 14, 2014 By:/s/ Kathleen P. Bloch Name: Kathleen P. Bloch, CPA Title: Chief Financial Officer

(Principal Financial and Accounting Officer)