



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

FORM 10-Q

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

For the quarter ended: September 30, 2009

Commission File Number: 0-19871

**STEMCELLS, INC.**

(Exact name of registrant as specified in its charter)

DELAWARE

(State or other jurisdiction of  
incorporation or organization)

94-3078125

(I.R.S. Employer  
identification No)

3155 PORTER DRIVE  
PALO ALTO, CA 94304

(Address of principal executive offices including zip code)

(650) 475-3100

(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 twelve months (or for such shorter periods that the registrant was required to file such reports) and (2) has been subject to such filing requirements for the past 90 days. Yes  No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes  No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer

Accelerated filer

Non-accelerated filer

Smaller reporting company

(Do not check if a 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

At November 2, 2009, there were 118,349,587 shares of Common Stock, \$.01 par value, issued and outstanding.

STEMCELLS, INC.

INDEX

|  | <u>Page Number</u> |
|--|--------------------|
| <u>PART I. FINANCIAL INFORMATION</u>   |                    |
| <u>Item 1. Financial Statements (Unaudited)</u>  | 3                  |
| <u>Condensed Consolidated Balance Sheets at September 30, 2009 and December 31, 2008</u>                               | 3                  |
| <u>Condensed Consolidated Statements of Operations for the three and nine months ended September 30, 2009 and 2008</u> | 4                  |
| <u>Condensed Consolidated Statements of Cash Flows for the nine months ended September 30, 2009 and 2008</u>           | 5                  |
| <u>Notes to Condensed Consolidated Financial Statements</u>  | 6                  |
| <u>Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations</u>                   | 17                 |
| <u>Item 3. Quantitative and Qualitative Disclosures About Market Risk</u>  | 29                 |
| <u>Item 4. Controls and Procedures</u>   | 29                 |
| <u>PART II. OTHER INFORMATION</u>  |                    |
| <u>Item 1. Legal Proceedings</u>   | 29                 |
| <u>Item 1A. Risk Factors</u>   | 30                 |
| <u>Item 2. Unregistered Sales of Equity Securities and Use of Proceeds</u>   | 30                 |
| <u>Item 3. Defaults Upon Senior Securities</u>   | 30                 |
| <u>Item 4. Submission of Matters to a Vote of Security-Holders</u>   | 30                 |
| <u>Item 5. Other Information</u>   | 30                 |
| <u>Item 6. Exhibits</u>  | 30                 |
| <u>SIGNATURES</u>  | 32                 |
| <u>EX-10.1</u>   |                    |
| <u>EX-31.1</u>   |                    |
| <u>EX-31.2</u>   |                    |
| <u>EX-32.1</u>   |                    |
| <u>EX-32.2</u>   |                    |

**NOTE REGARDING REFERENCES TO US AND OUR COMMON STOCK**

Throughout this Form 10-Q, the words “we,” “us,” “our,” and “StemCells” refer to StemCells, Inc., including our directly and indirectly wholly-owned subsidiaries. “Common stock” refers to the common stock, \$.01 par value, of StemCells, Inc.

## PART I—FINANCIAL INFORMATION

## ITEM 1. FINANCIAL STATEMENTS

## STEMCELLS, INC.

## CONDENSED CONSOLIDATED BALANCE SHEETS

(unaudited)

|  | <u>September 30, 2009</u> | <u>December 31, 2008</u> |
|--|---------------------------|--------------------------|
| <b>ASSETS</b>  |                           |                          |
| Current assets:  |                           |                          |
| Cash and cash equivalents  | \$ 28,226,515             | \$ 30,042,986            |
| Marketable securities  | 5,175,739                 | 4,181,592                |
| Other receivables  | 273,937                   | 164,204                  |
| Notes receivable   | —                         | 298,032                  |
| Prepaid and other current assets   | 492,979                   | 645,242                  |
| Total current assets   | 34,169,170                | 35,332,056               |
| Property, plant and equipment, net   | 3,012,856                 | 3,173,468                |
| Other assets, non-current  | 2,357,968                 | 2,079,278                |
| Goodwill and other intangible assets, net  | 5,384,762                 | 645,538                  |
| Total assets   | <u>\$ 44,924,756</u>      | <u>\$ 41,230,340</u>     |
| <b>LIABILITIES AND STOCKHOLDERS' EQUITY</b>  |                           |                          |
| Current liabilities:   |                           |                          |
| Accounts payable   | \$ 1,362,407              | \$ 1,078,123             |
| Accrued expenses and other liabilities   | 2,306,007                 | 2,261,245                |
| Accrued wind-down expenses, current  | 1,435,234                 | 1,420,378                |
| Deferred revenue, current  | 147,678                   | 43,909                   |
| Capital lease obligation, current  | 71,337                    | 18,739                   |
| Deferred rent, current   | 180,429                   | 346,930                  |
| Bond payable, current  | 157,500                   | 149,167                  |
| Total current liabilities  | 5,660,592                 | 5,318,491                |
| Capital lease obligation, non-current  | 101,757                   | 6,529                    |
| Bond payable, non-current  | 741,250                   | 860,000                  |
| Fair value of warrant liability  | 9,262,448                 | 8,439,931                |
| Deposits and other long-term liabilities   | 458,032                   | 466,211                  |
| Accrued wind-down expenses, non-current  | 3,322,076                 | 4,092,939                |
| Deferred rent, non-current   | —                         | 90,215                   |
| Deferred revenue, non-current  | 158,736                   | 147,039                  |
| Total liabilities  | 19,704,891                | 19,421,355               |
| Commitments and contingencies (Note 6)   |                           |                          |
| Stockholders' equity:  |                           |                          |
| Common stock, \$.01 par value; 250,000,000 shares authorized; issued and outstanding 108,319,091 at September 30, 2009 and 94,945,603 at December 31, 2008 | 1,083,190                 | 949,455                  |
| Additional paid-in capital   | 305,244,263               | 279,868,802              |
| Accumulated deficit  | (280,794,177)             | (259,001,524)            |
| Accumulated other comprehensive loss   | (313,411)                 | (7,748)                  |
| Total stockholders' equity   | 25,219,865                | 21,808,985               |
| Total liabilities and stockholders' equity   | <u>\$ 44,924,756</u>      | <u>\$ 41,230,340</u>     |

See Notes to Condensed Consolidated Financial Statements.

[Table of Contents](#)STEMCELLS, INC.  
CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS  
(unaudited)

|   | Three months ended<br>September 30, |                | Nine months ended<br>September 30, |                 |
|---|-------------------------------------|----------------|------------------------------------|-----------------|
|   | 2009                                | 2008           | 2009                               | 2008            |
| Revenue:  |                                     |                |                                    |                 |
| Revenue from licensing agreements and grants            | \$ 98,806                           | \$ 12,379      | \$ 300,260                         | \$ 59,561       |
| Revenue from product sales                              | 154,362                             | —              | 274,961                            | —               |
| Total Revenue   | 253,168                             | 12,379         | 575,221                            | 59,561          |
| Cost of product sales                                   | (141,453)                           | —              | (200,979)                          | —               |
| Gross Profit  | 111,715                             | 12,379         | 374,242                            | 59,561          |
| Operating expenses:                                     |                                     |                |                                    |                 |
| Research and development                                | 4,988,569                           | 4,171,799      | 14,278,958                         | 13,087,165      |
| Selling, general and administrative                     | 2,111,838                           | 1,631,580      | 6,852,724                          | 6,231,629       |
| Wind-down expenses                                      | (5,679)                             | 53,636         | 539,821                            | 381,136         |
| Total operating expenses                                | 7,094,728                           | 5,857,015      | 21,671,503                         | 19,699,930      |
| Loss from operations                                    | (6,983,013)                         | (5,844,636)    | (21,297,261)                       | (19,640,369)    |
| Other income (expense):                                 |                                     |                |                                    |                 |
| Realized gain on sale of marketable securities          | —                                   | —              | 397,866                            | —               |
| Change in fair value of warrant liability               | 1,830,414                           | —              | (822,517)                          | —               |
| Interest income   | 5,531                               | 138,332        | 55,816                             | 738,107         |
| Interest expense  | (27,613)                            | (26,849)       | (84,863)                           | (84,010)        |
| Other income (expense)                                  | 29,940                              | (10,800)       | (41,694)                           | (18,145)        |
| Total other income (expense), net                       | 1,838,272                           | 100,683        | (495,392)                          | 635,952         |
| Net loss  | \$ (5,144,741)                      | \$ (5,743,953) | \$ (21,792,653)                    | \$ (19,004,417) |
| Basic and diluted net loss per share                    | \$ (0.05)                           | \$ (0.07)      | \$ (0.21)                          | \$ (0.24)       |
| Shares used to compute basic and diluted loss per share | 108,257,345                         | 80,961,150     | 103,071,957                        | 80,827,141      |

See Notes to Condensed Consolidated Financial Statements.

[Table of Contents](#)STEMCELLS, INC.  
CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS  
(unaudited)

|   | Nine months ended<br>September 30, |                      |
|---|------------------------------------|----------------------|
|   | 2009                               | 2008                 |
| Cash flows from operating activities: Net loss                              | \$ (21,792,653)                    | \$ (19,004,417)      |
| Adjustments to reconcile net loss to net cash used in operating activities: |                                    |                      |
| Depreciation and amortization   | 1,220,813                          | 895,617              |
| Stock-based compensation  | 3,174,945                          | 3,021,444            |
| Gain on sale of marketable securities                                       | (397,866)                          | —                    |
| Change in fair value of warrant liability                                   | 822,517                            | —                    |
| Changes in operating assets and liabilities:                                |                                    |                      |
| Other receivables   | 398,742                            | 141,967              |
| Prepaid and other current assets  | 196,778                            | 441,662              |
| Other assets, non-current   | (269,393)                          | (322,821)            |
| Accounts payable and accrued expenses                                       | (509,958)                          | (1,415,468)          |
| Accrued wind-down expenses  | (775,547)                          | (707,061)            |
| Deferred revenue  | (303,027)                          | (2,464)              |
| Deferred rent   | (256,715)                          | (214,104)            |
| Net cash used in operating activities                                       | (18,491,364)                       | (17,165,645)         |
| Cash flows from investing activities:                                       |                                    |                      |
| Proceeds from the sale of marketable securities                             | 4,510,213                          | 22,658,794           |
| Purchase of marketable securities   | (4,977,982)                        | —                    |
| Repayment (payment) of advances under notes receivable                      | (79,829)                           | 1,000,000            |
| Purchases of property, plant and equipment                                  | (485,750)                          | (261,693)            |
| Acquisition of other assets   | (15,000)                           | (24,375)             |
| Net cash provided by (used in) investing activities                         | (1,048,348)                        | 23,372,726           |
| Cash flows from financing activities:                                       |                                    |                      |
| Proceeds from issuance of common stock, net of issuance costs               | 17,694,812                         | 194,061              |
| Proceeds from the exercise of stock options                                 | 252,984                            | 123,253              |
| Proceeds from the exercise of warrants                                      | 331,501                            | —                    |
| Payments related to net share issuance of stock based awards                | (380,548)                          | —                    |
| Proceeds from (repayment of) capital lease obligations                      | 147,825                            | (13,038)             |
| Repayment of bonds payable  | (110,417)                          | (100,000)            |
| Net cash provided by financing activities                                   | 17,936,157                         | 204,276              |
| Increase (decrease) in cash and cash equivalents                            | (1,603,555)                        | 6,411,357            |
| Effects of foreign exchange rate changes on cash                            | (212,916)                          | —                    |
| Cash and cash equivalents, beginning of period                              | 30,042,986                         | 9,759,169            |
| Cash and cash equivalents, end of period                                    | <u>\$ 28,226,515</u>               | <u>\$ 16,170,526</u> |
| Supplemental disclosure of cash flow information:                           |                                    |                      |
| Interest paid   | <u>\$ 84,863</u>                   | <u>\$ 84,010</u>     |
| Supplemental schedule of non-cash investing and financing activities:       |                                    |                      |
| Stock issued as part of our acquisition of the operations of SCS Plc (1)    | \$ 4,425,500                       | —                    |
| Forgiveness of principal and accrued interest on notes receivable (1)       | \$ 709,076                         | —                    |
| Stock issued for licensing agreement (2)                                    | \$ 10,000                          | \$ 10,000            |

- (1) On April 1, 2009, we acquired the operations of Stem Cell Sciences Plc (SCS). As consideration, we issued to SCS 2,650,000 shares of common stock with a closing price of \$1.67 per share and waived certain commitments of SCS to repay approximately \$709,000 in principal and accrued interest owed to us.
- (2) Under terms of a license agreement with the California Institute of Technology (Cal Tech), annual fees of \$5,000 were due on each of two patents to which we hold a license from Cal Tech, payable in cash or common stock at our choice. We elected to pay the fees in stock and issued 5,900 and 6,924 shares of our common stock in 2009 and 2008 respectively.

See Notes to Condensed Consolidated Financial Statements.

**Notes to Condensed Consolidated Financial Statements (Unaudited)  
September 30, 2009 and 2008**

**Note 1. Summary of Significant Accounting Policies**

**Nature of Business**

StemCells, Inc., a Delaware corporation, is a biopharmaceutical company that operates in one segment, the development and commercialization of cell-based technologies.

The accompanying financial data as of and for the three and nine months ended September 30, 2009 and 2008 has been prepared by us, without audit, pursuant to the rules and regulations of the Securities and Exchange Commission (SEC). Certain information and footnote disclosures normally included in financial statements prepared in accordance with accounting principles generally accepted in the United States (U.S. GAAP) have been condensed or omitted pursuant to such rules and regulations. The December 31, 2008 condensed consolidated balance sheet was derived from audited financial statements, but does not include all disclosures required by U.S. GAAP. However, we believe that the disclosures are adequate to make the information presented not misleading. These condensed consolidated financial statements should be read in conjunction with the consolidated financial statements and the notes thereto included in our Annual Report on Form 10-K for the fiscal year ended December 31, 2008. Subsequent events have been evaluated through November 4, 2009, which represents the issuance date of these unaudited condensed consolidated financial statements.

We have incurred significant operating losses since inception. We expect to incur additional operating losses over the foreseeable future. We have very limited liquidity and capital resources and must obtain significant additional capital and other resources in order to sustain our product development efforts, to provide funding for the acquisition of technologies, businesses and intellectual property rights, preclinical and clinical testing of our investigative products, pursuit of regulatory approvals, acquisition of capital equipment, laboratory and office facilities, establishment of production capabilities, selling, general and administrative expenses and other working capital requirements. We rely on our cash reserves, proceeds from equity and debt offerings, proceeds from the transfer or sale of intellectual property rights, equipment, facilities or investments, government grants and funding from collaborative arrangements, to fund our operations. If we exhaust our cash reserves and are unable to obtain adequate financing, we may be unable to meet our operating obligations and we may be required to initiate bankruptcy proceedings. The financial statements do not include any adjustments to reflect the possible future effects on the recoverability and classification of assets or the amounts and classification of liabilities that may result from the outcome of this uncertainty.

**Principles of Consolidation**

The condensed consolidated financial statements include the accounts of StemCells, Inc., and our wholly-owned subsidiaries, StemCells California, Inc., StemCells Property Holding LLC, Stem Cell Sciences Holdings Ltd; Stem Cell Sciences (UK) Ltd; and Stem Cell Sciences (Australia) Pty Ltd. All significant intercompany accounts and transactions have been eliminated.

**Use of Estimates**

The preparation of financial statements in conformity with U.S. GAAP requires management to make judgments, assumptions and estimates that affect the amounts reported in our condensed consolidated financial statements and accompanying notes. Actual results could differ materially from these estimates.

Significant estimates include the following:

- the grant date fair value of stock-based awards recognized as compensation expense (see Note 4, "Stock Based Compensation");
- accrued wind-down expenses (see Note 5, "Wind-Down Expenses");
- the fair value of warrants recorded as a liability (see Note 7, "Warrant Liability"); and
- the fair value of goodwill and other intangible assets (see Note 9, "Acquisition of SCS Operations").

## **Financial Instruments**

### *Cash and Cash Equivalents*

We consider money market accounts and investments with a maturity of 90 days or less from the date of purchase to be cash equivalents.

### *Marketable Securities*

Our existing marketable debt and equity securities are designated as available-for-sale securities. These securities are carried at fair value (see Note 2, "Financial Instruments"), with the unrealized gains and losses reported as a component of stockholders' equity. The balance sheet classification of our marketable debt securities as current or non-current is based on their maturity dates. Investments with remaining maturities of 365 days or less not classified as cash equivalents are classified as "Marketable securities, current." Investments with remaining maturities greater than 365 days are classified as "Marketable securities, non-current." Management determines the appropriate designation of its investments in marketable debt and equity securities at the time of purchase and reevaluates such designation as of each balance sheet date. The cost of securities sold is based upon the specific identification method.

If the estimated fair value of a security is below its carrying value, we evaluate whether we have the intent and ability to retain our investment for a period of time sufficient to allow for any anticipated recovery to the cost of the investment, and whether evidence indicating that the cost of the investment is recoverable within a reasonable period of time outweighs evidence to the contrary. Other-than-temporary declines in estimated fair value of all marketable securities are charged to "Other income (expense), net." No such impairment was recognized during the nine months ended September 30, 2009 or 2008.

### *Other Receivables*

Our receivables generally consist of interest income on our financial instruments, revenue from licensing agreements and grants, revenue from product sales, and rent from our sub-lease tenants.

## **Revenue Recognition**

We currently recognize revenue resulting from the licensing and use of our technology and intellectual property. Such licensing agreements may contain multiple elements, such as upfront fees, payments related to the achievement of particular milestones and royalties. Revenue from upfront fees for licensing agreements that contain multiple elements are generally deferred and recognized on a straight-line basis over the term of the agreement. Fees associated with substantive at risk performance-based milestones are recognized as revenue upon completion of the scientific or regulatory event specified in the agreement, and royalties received are recognized as earned. Revenue from collaborative agreements and grants are recognized as earned upon either the incurring of reimbursable expenses directly related to the particular research plan or the completion of certain development milestones as defined within the terms of the relevant collaborative agreement or grant. Revenue from product sales are recognized when the product is shipped and the order fulfilled.

## **Stock-Based Compensation**

Compensation expense for stock-based payment awards to employees is based on their grant date fair value as calculated and amortized over their vesting period. See Note 4, "Stock-Based Compensation" for further information.

Compensation expense for stock-based awards granted to non-employees is based on the estimated fair value of the award which is re-measured at each reporting date and is amortized over the remaining vesting period.

We use the Black-Scholes-Merton (Black-Scholes) model to calculate the fair value of stock-based awards.

[Table of Contents](#)**Net Loss per Share**

Basic net loss per share is computed by dividing net loss by the weighted-average number of shares of common stock outstanding during the period. Diluted net loss per share is computed based on the weighted-average number of shares of common stock and other dilutive securities. To the extent these securities are anti-dilutive, they are excluded from the calculation of diluted earnings per share.

The following is a reconciliation of the numerators and denominators of the basic and diluted earnings per share computations:

|  | <u>Three months ended September 30,</u> |                | <u>Nine months ended September 30,</u> |                 |
|--|---|----------------|--|-----------------|
|  | <u>2009</u>                             | <u>2008</u>    | <u>2009</u>                            | <u>2008</u>     |
| Net loss   | \$ (5,144,741)                          | \$ (5,743,953) | \$ (21,792,653)                        | \$ (19,004,417) |
| Weighted average shares outstanding used to compute basic and diluted net loss per share | 108,257,345                             | 80,961,150     | 103,071,957                            | 80,827,141      |
| Basic and diluted net loss per share   | \$ (0.05)                               | \$ (0.07)      | \$ (0.21)                              | \$ (0.24)       |

The following outstanding potentially dilutive common stock equivalents were excluded from the computation of diluted net loss per share because the effect would have been anti-dilutive as of September 30:

|                        | <u>2009</u>       | <u>2008</u>       |
|------------------------|-------------------|-------------------|
| Options                | 9,293,703         | 8,471,887         |
| Restricted stock units | 2,367,901         | 1,650,000         |
| Warrants               | 10,344,828        | 1,255,000         |
| Total                  | <u>22,006,432</u> | <u>11,376,887</u> |

**Comprehensive Loss**

Comprehensive loss is comprised of net losses and other comprehensive loss or income (OCL). OCL includes certain changes in stockholders' equity that are excluded from net losses. Specifically, we include in OCL changes in unrealized gains and losses on our marketable securities and unrealized gains and losses on foreign currency translations. Accumulated other comprehensive loss was \$313,411 as of September 30, 2009 and \$7,748 as of December 31, 2008.

The activity in OCL was as follows:

|  | <u>Three months ended September 30,</u> |                       | <u>Nine months ended September 30,</u> |                        |
|--|---|-----------------------|--|------------------------|
|  | <u>2009</u>                             | <u>2008</u>           | <u>2009</u>                            | <u>2008</u>            |
| Net loss   | \$ (5,144,741)                          | \$ (5,743,953)        | \$ (21,792,653)                        | \$ (19,004,417)        |
| Net change in unrealized gains and losses on marketable securities         | (5,248)                                 | (272,066)             | 128,512                                | (1,691,631)            |
| Net change in unrealized gains and losses on foreign currency translations | (208,537)                               | —                     | (434,175)                              | —                      |
| Comprehensive loss   | <u>\$ (5,358,526)</u>                   | <u>\$ (6,016,019)</u> | <u>\$ (22,098,316)</u>                 | <u>\$ (20,696,048)</u> |

**Recent Accounting Pronouncements**

In August 2009, the FASB issued an Accounting Standard Update (ASU) under the topic "Fair Value Measurements and Disclosures — Measuring Liabilities at Fair Value." This ASU provides amendments for fair value measurements of liabilities. It provides clarification that under circumstances in which, a quoted price in an active market for the identical liability is not available, a reporting entity is required to measure fair value using one or more techniques prescribed in this update. This ASU also clarifies that when estimating a fair value of a liability, a reporting entity is not required to include a separate input or adjustment to other inputs relating to the existence of a restriction that prevents the transfer of the liability. This ASU is effective for the first reporting period (including interim periods) beginning after issuance or fourth quarter 2009. The Company is assessing the impact, if any, of this ASU on our condensed consolidated financial statements and disclosures.

**Note 2. Financial Instruments**

The following table summarizes the fair value of our cash, cash equivalents and available-for-sale marketable securities held in our current investment portfolio:

[Table of Contents](#)

|  | <u>Amortized<br/>Cost</u> | <u>Gross<br/>Unrealized<br/>Gains</u> | <u>Gross<br/>Unrealized<br/>(Losses)</u> | <u>Fair Value</u>   |
|--|---------------------------|---------------------------------------|--|---------------------|
| <b>September 30, 2009</b>                                    |                           |                                       |  |                     |
| Cash   | \$ 515,459                | \$ —                                  | \$ —                                     | \$ 515,459          |
| Cash equivalents (money market accounts)                     | 27,711,056                | —                                     | —  | 27,711,056          |
| Marketable debt securities, current (maturity within 1 year) | 4,980,519                 | —                                     | (711)                                    | 4,979,808           |
| Marketable equity securities, current                        | 74,456                    | 121,475                               | —  | 195,931             |
| Total cash, cash equivalents, and marketable securities      | <u>\$33,281,490</u>       | <u>\$ 121,475</u>                     | <u>\$ (711)</u>                          | <u>\$33,402,254</u> |
| <b>December 31, 2008</b>                                     |                           |                                       |  |                     |
| Cash   | \$ 243,883                | \$ —                                  | \$ —                                     | \$ 243,883          |
| Cash equivalents (money market accounts)                     | 29,799,103                | —                                     | —  | 29,799,103          |
| Marketable debt securities, current (maturity within 1 year) | 4,002,537                 | —                                     | (7,748)                                  | 3,994,789           |
| Marketable equity securities, current                        | 186,803                   | —                                     | —  | 186,803             |
| Total cash, cash equivalents, and marketable securities      | <u>\$34,232,326</u>       | <u>\$ —</u>                           | <u>\$ (7,748)</u>                        | <u>\$34,224,578</u> |

Gross unrealized gains and losses on cash equivalents were not material at September 30, 2009 and December 31, 2008. At September 30, 2009, our investment in marketable debt securities was composed primarily of U.S. Treasury securities.

## [Table of Contents](#)

Our investment in marketable equity securities consists of ordinary shares of ReNeuron Group Plc (ReNeuron), a publicly listed U.K. corporation. In July 2005, we entered into an agreement with ReNeuron under which we granted ReNeuron a license that allows ReNeuron to exploit their “c-mycER” conditionally immortalized adult human neural stem cell technology for therapy and other purposes. We received shares of ReNeuron common stock, as well as a cross-license to the exclusive use of ReNeuron’s technology for certain diseases and conditions, including lysosomal storage diseases, spinal cord injury, cerebral palsy, and multiple sclerosis. The agreement also provides for full settlement of any potential claims that either we or ReNeuron might have had against the other in connection with any putative infringement of certain of each party’s patent rights prior to the effective date of the agreement. In July and August 2005, we received approximately 8,836,000 ordinary shares of ReNeuron common stock, net of approximately 104,000 shares that were transferred to NeuroSpheres, and subsequently, as a result of certain anti-dilution provisions in the agreement, we received approximately 1,261,000 more shares, net of approximately 18,000 shares that were transferred to NeuroSpheres. In February 2007, we sold 5,275,000 shares for net proceeds of approximately \$3,075,000. We recognized approximately \$716,000 as realized gain from this transaction. At December 31, 2008, we owned 4,821,924 shares of ReNeuron with a carrying and fair market value of approximately \$187,000. In the first quarter of 2009, we sold 2,900,000 shares of ReNeuron and received net proceeds of approximately \$510,000 for a realized gain of approximately \$398,000. As of September 30, 2009, we owned 1,921,924 shares of ReNeuron with a carrying and fair market value of approximately \$196,000.

Changes in the fair market value of our ReNeuron shares as a result of changes in market price per share or the exchange rate between the U.S. dollar and the British pound are accounted for as an unrealized gain or loss under “other comprehensive income (loss)” if deemed temporary and are not recorded as “other income (expense), net” until the shares are disposed of and a gain or loss realized. If the fair value of a security is below its carrying value, we evaluate whether we have the intent and ability to retain our investment for a period of time sufficient to allow for any anticipated recovery to the cost of the investment, and whether evidence indicating that the cost of the investment is recoverable within a reasonable period of time outweighs evidence to the contrary. Other-than-temporary declines in estimated fair value of all marketable securities are charged to “other income (expense), net.” For the three months ended September 30, 2009, we recorded an unrealized gain of approximately \$5,000.

### *Notes Receivable*

In December 2008 and March 2009, we made two secured loans to Stem Cell Sciences Plc (SCS) in connection with our acquisition negotiations with SCS. The loans accrued interest at 8% per annum and were repayable six months after the initial funding. At March 31, 2009, the principal and accrued interest for these two loans together totaled approximately \$709,000. On April 1, 2009, we closed the acquisition of the operations of SCS, and in connection with that transaction, we waived the obligation of SCS to repay the principal and accrued interest of these two loans.

### **Note 3. Fair Value Measurement**

The following tables present our assets and liabilities that are measured at fair value on a recurring basis and are categorized using the fair value hierarchy. The fair value hierarchy has three levels based on the reliability of the inputs used to determine fair value

Level 1 — Observable inputs that reflect quoted prices (unadjusted) for identical assets or liabilities in active markets.

Level 2 — Directly or indirectly observable inputs other than in Level 1, that include quoted prices for similar assets or liabilities in active markets or quoted prices for identical or similar assets or liabilities in markets that are not active.

Level 3 — Unobservable inputs which are supported by little or no market activity that reflects the reporting entity’s own assumptions about the assumptions that market participants would use in pricing the asset or liability.

The fair value hierarchy also requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value.

Our cash equivalents and marketable debt and equity securities are classified within Level 1 or Level 2. This is because our cash equivalents and marketable securities are valued primarily using quoted market prices or alternative pricing sources and models utilizing market observable inputs. We currently do not have any Level 3 financial assets or liabilities.

The following table presents financial assets and liabilities measured at fair value:

[Table of Contents](#)

|                               | Fair Value Measurement<br>at Reporting Date Using                          |   | As of<br>September 30,<br>2009 |
|-------------------------------|--|---|--------------------------------|
|                               | Quoted Prices<br>in Active Markets<br>for<br>Identical Assets<br>(Level 1) | Significant<br>Other<br>Observable<br>Inputs<br>(Level 2) |                                |
| <b>Assets</b>                 |  |   |                                |
| <b>Cash Equivalents:</b>      |  |   |                                |
| Money market funds            | \$ 1,266,401   | \$ —  | \$ 1,266,401                   |
| U.S. Treasury securities      | 31,424,463   | —   | 31,424,463                     |
| <b>Marketable Securities:</b> |  |   |                                |
| Equity securities             | 195,931  | —   | 195,931                        |
| <b>Total assets</b>           | <b>\$ 32,886,795</b>   | <b>—</b>  | <b>32,886,795</b>              |
| <b>Liabilities</b>            |  |   |                                |
| Bond payable                  | \$ —   | \$ 898,750  | \$ 898,750                     |

**Note 4. Stock-Based Compensation**

We currently grant stock-based awards under three equity incentive plans. We had 19,025,067 shares authorized to be granted under the three plans as of September 30, 2009. Under these plans we may grant incentive stock options, nonqualified stock options, stock appreciation rights, restricted stock, restricted stock units, and performance-based shares to our employees, directors and consultants, at prices determined by our Board of Directors. Incentive stock options may only be granted to employees under these plans with a grant price not less than the fair market value of the stock on the date of grant.

Our compensation expense for stock options and restricted stock units issued from our equity incentive plans for the three and nine months ended September 30 was as follows:

|   | Three months ended September 30, |                   | Nine months ended September 30, |                     |
|---|----------------------------------|-------------------|---------------------------------|---------------------|
|   | 2009                             | 2008              | 2009                            | 2008                |
| Research and development expense  | \$ 555,450                       | \$ 473,828        | \$ 1,542,023                    | \$ 1,430,157        |
| General and administrative expense  | 542,400                          | 465,351           | 1,525,699                       | 1,443,788           |
| <b>Total employee stock-based compensation expense and effect on net loss</b> | <b>\$ 1,097,850</b>              | <b>\$ 939,179</b> | <b>\$ 3,067,722</b>             | <b>\$ 2,873,945</b> |
| Effect on basic and diluted net loss per common share                         | \$ (0.01)                        | \$ (0.01)         | \$ (0.03)                       | \$ (0.04)           |

As of September 30, 2009, we had approximately \$6,200,000 of total unrecognized compensation expense related to unvested awards of stock options and restricted stock units granted under our various stock-based plans that we expect to recognize over a weighted-average vesting period of 2.5 years.

*Stock Options*

Generally, stock options granted to employees have a maximum term of ten years, and vest over a four year period from the date of grant; 25% vest at the end of one year, and 75% vest monthly over the remaining three-year service period. We may grant options with different vesting terms from time to time. Upon employee termination of service, any unexercised vested option will be forfeited three months following termination or the expiration of the option, whichever is earlier. Unvested options are forfeited on termination.

A summary of our stock option activity for the three months ended September 30, 2009 is as follows:

|  | Number of options | Weighted-average<br>exercise price (\$) |
|--|-------------------|---|
| Balance at June 30, 2009                         | 9,380,197         | 2.27                                    |
| Granted  | 47,500            | 1.70                                    |
| Exercised  | (69,654)          | 1.11                                    |
| Cancelled  | (64,340)          | 1.93                                    |
| <b>Outstanding options at September 30, 2009</b> | <b>9,293,703</b>  | <b>2.28</b>                             |

The estimated weighted-average fair value of options granted in the three months ended September 30, 2009 and 2008 was approximately \$1.38 and \$0.93 per share respectively. The fair value of options granted is estimated as of the date of grant using the Black-Scholes option pricing model, which requires certain assumptions as of the date of grant. The weighted-average assumptions used as of September 30, 2009 and 2008 were as follows:

## Table of Contents

|                            | <u>Three months ended September 30,</u> |             | <u>Nine months ended September 30,</u> |             |
|----------------------------|---|-------------|--|-------------|
|                            | <u>2009</u>                             | <u>2008</u> | <u>2009</u>                            | <u>2008</u> |
| Expected life (years)(1)   | 7.59                                    | 7.71        | 7.38                                   | 7.22        |
| Risk-free interest rate(2) | 3.22%                                   | 3.56%       | 2.79%                                  | 3.32%       |
| Expected volatility(3)     | 91.83%                                  | 93.78%      | 93.56%                                 | 93.81%      |
| Expected dividend yield(4) | 0%                                      | 0%          | 0%                                     | 0%          |

- (1) The expected term represents the period during which our stock-based awards are expected to be outstanding. We estimated this amount based on historical experience of similar awards, giving consideration to the contractual terms of the awards, vesting requirements, and expectation of future employee behavior, including post-vesting terminations.
- (2) The risk-free interest rate is based on U.S. Treasury debt securities with maturities close to the expected term of the option as of the date of grant.
- (3) Expected volatility is based on historical volatility over the most recent historical period equal to the length of the expected term of the option as of the date of grant.
- (4) We have not historically issued any dividends, and we do not expect to in the foreseeable future.

At the end of each reporting period we estimate forfeiture rates based on our historical experience within separate groups of employees and adjust the stock-based compensation expense accordingly.

A summary of changes in unvested options for the three months ended September 30, 2009 is as follows:

|  | <u>Number of options</u> | <u>Weighted-average grant date fair value (\$)</u> |
|--|--------------------------|--|
| Unvested options at June 30, 2009      | 3,265,484                | 1.62   |
| Granted                                | 47,500                   | 1.38   |
| Vested                                 | (360,500)                | 1.95   |
| Cancelled                              | (64,340)                 | 1.45   |
| Unvested options at September 30, 2009 | <u>2,888,144</u>         | <u>1.58</u>  |

The estimated fair value of shares vested were approximately \$703,000 in the three months ended September 30, 2009.

### *Restricted Stock Units*

We have granted restricted stock units (RSUs) to certain employees which entitle the holders to receive shares of our common stock upon vesting of the RSUs. The fair value of restricted stock units granted are based upon the market price of the underlying common stock as if it were vested and issued on the date of grant.

A summary of our restricted stock unit activity for the three months ended September 30, 2009 is as follows:

|  | <u>Number of RSUs</u> | <u>Weighted-average grant date fair value (\$)</u> |
|--|-----------------------|--|
| Balance at June 30, 2009 (1)           | 2,303,068             | 1.49   |
| Granted (2)                            | 103,333               | 1.70   |
| Vested and converted to common shares  | —                     | —  |
| Cancelled                              | (38,500)              | 1.26   |
| Balance unvested at September 30, 2009 | <u>2,367,901</u>      | <u>1.50</u>  |

- (1) 1,100,000 of these restricted stock units vest and convert into shares of our common stock over a three year period from the date of grant: one-third of the award will vest on each grant date anniversary over the following three years. 953,068 of these restricted stock units vest and convert into shares of our common stock over a four year period from the date of grant: one-fourth of the award will vest on each grant date anniversary over the following four years. 250,000 of these restricted stock units will vest and convert into shares of our common stock subject to attainment of certain performance criteria and will be forfeited if not met by March 31, 2011.
- (2) 93,333 of these restricted stock units vest and convert into shares of our common stock over a four year period from the date of grant: one-fourth of the award will vest on each grant date anniversary over the following four years. 10,000 of these restricted stock units vest and convert into shares of our common stock after one year from the date of grant.

### *Stock Appreciation Rights*

In July 2006, we granted cash-settled Stock Appreciation Rights (SARs) to certain employees that give the holder the right, upon exercise, to the difference between the price per share of our common stock at the time of exercise and the exercise price of the SARs.

## [Table of Contents](#)

The SARs have a maximum term of ten years with an exercise price of \$2.00, which is equal to the market price of our common stock at the date of grant. The SARs vest 25% on the first anniversary of the grant date and 75% vest monthly over the remaining three-year service period. Compensation expense is based on the fair value of SARs which is calculated using the Black-Scholes option pricing model. The stock-based compensation expense and liability are re-measured at each reporting date through the date of settlement.

A summary of the changes in SARs for the three months ended September 30, 2009 is as follows:

|  | <u>Number of SARs</u> |
|--|-----------------------|
| Outstanding at June 30, 2009           | 1,430,849             |
| Granted                                | —                     |
| Exercised                              | —                     |
| Forfeited and expired                  | —                     |
| Outstanding SARs at September 30, 2009 | <u>1,430,849</u>      |
| SARs exercisable at September 30, 2009 | <u>1,132,755</u>      |

For the three months ended September 30, 2009, we re-measured the liability related to the SARs and due to a decrease in our common stock price, the re-measured fair value of the liability reduced compensation expense by approximately \$5,000. For the same period in 2008, we recorded compensation expense of approximately \$25,000.

At September 30, 2009, approximately \$210,000 of unrecognized compensation expense related to SARs is expected to be recognized over a weighted average vesting period of approximately 1.0 year. The resulting effect on net loss and net loss per share attributable to common stockholders is not likely to be representative of the effects in future periods, due to changes in the fair value calculation which is dependent on the stock price, volatility, interest and forfeiture rates, additional grants and subsequent periods of vesting.

### **Note 5. Wind-Down Expenses**

#### *Rhode Island*

In October 1999, we relocated to California from Rhode Island and established a wind down reserve for the estimated lease payments and operating costs of the scientific and administrative facility in Rhode Island. Even though we intend to dispose of the facility at the earliest possible time, we cannot determine with certainty a fixed date by which such disposal will occur. In light of this uncertainty, we periodically re-evaluate and adjust the reserve. We consider various factors such as our lease payments through to the end of the lease, operating expenses, the current real estate market in Rhode Island, and estimated subtenant income based on actual and projected occupancy.

The summary of the changes to our wind-down reserve related to this facility as of September 30, 2009 and December 31, 2008 were as follows:

|   | <u>January to<br/>March 31,<br/>2009</u> | <u>April to<br/>June 30,<br/>2009</u> | <u>July to<br/>September 30,<br/>2009</u> | <u>January to<br/>September 30,<br/>2009</u> | <u>January to<br/>December 31,<br/>2008</u> |
|---|--|---------------------------------------|---|--|---|
| Accrued wind-down reserve at beginning of period                          | \$ 4,448,000                             | \$ 4,323,000                          | \$ 4,060,000                              | \$ 4,448,000                                 | \$ 4,875,000                                |
| Less actual expenses recorded against estimated reserve during the period | (331,000)                                | (293,000)                             | (286,000)                                 | (910,000)                                    | (1,293,000)                                 |
| Additional expense recorded to revise estimated reserve at period-end     | 206,000                                  | 30,000                                | (6,000)                                   | 230,000                                      | 866,000                                     |
| Revised reserve at period-end   | 4,323,000                                | 4,060,000                             | 3,768,000                                 | 3,768,000                                    | 4,448,000                                   |
| Add deferred rent at period-end   | 1,014,000                                | 962,000                               | 911,000                                   | 911,000                                      | 1,065,000                                   |
| Total accrued wind-down expenses at period-end (current and non current)  | <u>\$ 5,337,000</u>                      | <u>\$ 5,022,000</u>                   | <u>\$ 4,679,000</u>                       | <u>\$ 4,679,000</u>                          | <u>\$ 5,513,000</u>                         |
| Accrued wind-down expenses, current                                       | \$ 1,496,000                             | \$ 1,438,000                          | \$ 1,357,000                              | \$ 1,357,000                                 | \$ 1,420,000                                |
| Accrued wind-down expenses, non-current                                   | 3,841,000                                | 3,584,000                             | 3,322,000                                 | 3,322,000                                    | 4,093,000                                   |
| Total accrued wind-down expenses  | <u>\$ 5,337,000</u>                      | <u>\$ 5,022,000</u>                   | <u>\$ 4,679,000</u>                       | <u>\$ 4,679,000</u>                          | <u>\$ 5,513,000</u>                         |

#### *Australia*

On April 1, 2009, as part of our acquisition of the SCS operations, we acquired operations near Melbourne, Australia. In order to

## [Table of Contents](#)

reduce operating complexity and expenses, we made the decision to close our site in Australia and consolidate personnel and programs to our Cambridge, U.K. and Palo Alto, California sites. U.S. GAAP requires that a liability for a cost associated with an exit or disposal activity be recognized when the liability is incurred. In accordance with U.S. GAAP requirements, at June 30, 2009, we established a short-term reserve of approximately \$310,000 for the estimated costs to close down and exit our Australia operations. The reserve reflects the estimated cost to terminate our facility lease in Australia (with an original termination date of December 31, 2010), employee termination benefits and other liabilities associated with the wind-down and relocation of our operations in Australia.

|   | <u>July to<br/>September 30,<br/>2009</u> |
|---|---|
| Accrued wind-down reserve at June 30, 2009                                | \$ 310,000                                |
| Less actual expenses recorded against estimated reserve during the period | (232,000)                                 |
| Additional expense recorded to revise estimated reserve at period-end     | —   |
| Accrued wind-down reserve at September 30, 2009                           | <u>\$ 78,000</u>                          |

### **Note 6. Commitments and Contingencies**

#### *Leases*

##### *Capital leases*

We entered into direct financing transactions with the State of Rhode Island and received proceeds from the issuance of industrial revenue bonds totaling \$5,000,000 to finance the construction of our pilot manufacturing facility in Rhode Island. The related lease agreements are structured such that lease payments fully fund all semiannual interest payments and annual principal payments through maturity in August 2014. The interest rate for the remaining bond series is 9.5%. The bond contains certain restrictive covenants which limit, among other things, the payment of cash dividends and the sale of the related assets. The outstanding principal was approximately \$899,000 at September 30, 2009 and \$1,009,000 at December 31, 2008.

##### *Operating leases*

We entered into a fifteen-year lease agreement for a scientific and administrative facility in Rhode Island in connection with a sale and leaseback arrangement in 1997. The lease term expires June 30, 2013. The lease contains escalating rent payments, which we recognize on a straight-line basis. Deferred rent expense for this facility was approximately \$911,000 at September 30, 2009 and \$1,065,000 at December 31, 2008, and is included as part of the wind-down accrual on the accompanying condensed consolidated balance sheet.

We entered into and amended a lease agreement for an approximately 68,000 square foot facility located at the Stanford Research Park in Palo Alto, California. The facility includes space for animals, laboratories, offices, and a GMP (Good Manufacturing Practices) suite. GMP facilities can be used to manufacture materials for clinical trials. Under the term of the agreement we were required to provide a letter of credit for a total of approximately \$778,000, which serves as a security deposit for the duration of the lease term. The letter of credit issued by our financial institution is collateralized by a certificate of deposit for the same amount, which is reflected as restricted cash in other assets, non-current on our condensed consolidated balance sheets. The lease contains escalating rent payments, which we recognize as operating lease expense on a straight-line basis. Deferred rent was approximately \$180,000 as of September 30, 2009 and \$437,000 as of December 31, 2008, and is reflected as deferred rent on our condensed consolidated balance sheet. As of September 30, 2009, we had a space-sharing agreement covering approximately 10,451 square feet of this facility, under which we receive base payments plus a proportionate share of the operating expenses based on square footage over the term of the agreement. In October 2009, we amended the lease to extend the expiry date of the lease term from March 31, 2010 to August 31, 2011. The aggregate rent payment for the extended lease term is approximately \$3,100,000.

On April 1, 2009, as part of our acquisition of the operations of SCS, we acquired operations in Cambridge, U.K.. Our wholly-owned subsidiary, Stem Cell Sciences UK Ltd, has two lease agreements with Babraham Bioscience Technologies Ltd., for approximately 3,900 square feet in total of office and lab space in Cambridge, U.K. The lease term for one ends on February 28, 2010, and the other on March 26, 2011, with annual lease payments of approximately 59,000 U.K. pounds (GBP) and 51,000 GBP, respectively.

## [Table of Contents](#)

On April 1, 2009, as part of our acquisition of the operations of SCS, we acquired operations near Melbourne, Australia. Our wholly-owned subsidiary, Stem Cell Sciences (Australia) Pty Ltd, is in a lease agreement with Monash University for approximately 1,938 square feet of office and lab space in Victoria, Australia. The lease term ends on December 31, 2010. In order to reduce operating complexity and expenses, we made the decision to close our site in Australia and consolidate personnel and programs to our Cambridge, U.K. and Palo Alto, California sites. We paid approximately \$86,000 for an early termination of the lease which cost is included as part of our wind-down expenses in the accompanying condensed consolidated financial statements.

### **Contingencies**

In July 2006, we filed suit against Neuralstem, Inc. in the Federal District Court for the District of Maryland, alleging that Neuralstem's activities violate claims in four of the patents we exclusively licensed from NeuroSpheres. In December 2006, Neuralstem petitioned the U.S. Patent and Trademark Office (PTO) to reexamine two of the patents in our infringement action against Neuralstem, namely U.S. Patent No. 6,294,346 (claiming the use of human neural stem cells for drug screening) and U.S. Patent No. 7,101,709 (claiming the use of human neural stem cells for screening biological agents). In April 2007, Neuralstem petitioned the PTO to reexamine the remaining two patents in the suit, namely U.S. Patent No. 5,851,832 (claiming methods for proliferating human neural stem cells) and U.S. Patent No. 6,497,872 (claiming methods for transplanting human neural stem cells). These requests were granted by the PTO and, in June 2007, the parties voluntarily agreed to stay the pending litigation while the PTO considered these reexamination requests. In April 2008, the PTO upheld the '832 and '872 patents, as amended, and issued Notices of Intent to Issue an Ex Parte Reexamination Certificate for both. In May 2009, the PTO upheld the '346 and '709 patents, as amended, and issued Notices of Intent to Issue an Ex Parte Reexamination Certificate for both.

In May 2008, we filed a second patent infringement suit against Neuralstem and its two founders, Karl Johe and Richard Garr. In this suit, which we filed in the Federal District Court for the Northern District of California, we allege that Neuralstem's activities infringe claims in two patents we exclusively license from NeuroSpheres, specifically U.S. Patent No. 7,361,505 (claiming composition of matter of human neural stem cells derived from any source material) and U.S. Patent No. 7,115,418 (claiming methods for proliferating human neural stem cells). In addition, we allege various state law causes of action against Neuralstem arising out of its repeated derogatory statements to the public about our patent portfolio. Also in May 2008, Neuralstem filed suit against us and NeuroSpheres in the Federal District Court for the District of Maryland seeking a declaratory judgment that the '505 and '418 patents are either invalid or are not infringed by Neuralstem and that Neuralstem has not violated California state law. In August 2008, the California court transferred our lawsuit against Neuralstem to Maryland for resolution on the merits. In July 2009, the Maryland District Court granted our motion to consolidate these two cases with the litigation against Neuralstem in 2006. In August 2009, the Maryland District Court approved a scheduling order submitted by the parties for discovery and trial.

### **Indemnification Agreement**

In July 2008, we amended our 1997 and 2000 license agreements with NeuroSpheres. NeuroSpheres is the holder of certain patents exclusively licensed by us, including the six patents that are the basis of our patent infringement suits against Neuralstem. As part of the amendment, we agreed to pay all reasonable litigation costs, expenses and attorney's fees incurred by NeuroSpheres in the declaratory judgment suit between us and Neuralstem. In return, we are entitled to off-set all litigation costs incurred in that suit and any successor suit against amounts that would otherwise be owed under the license agreements, such as annual maintenance fees, milestones and royalty payments. At this time, we cannot estimate the likely total costs of our pending litigation with Neuralstem, given the unpredictable nature of such proceedings, or the total amount we may ultimately owe under the NeuroSpheres license agreements. However, the ability to apply the offsets will run for the entire term of each license agreement. For these reasons, we have chosen to approximate the potential value of the offset receivable by assuming that all litigation charges actually incurred in the consolidated cases, as of September 30, 2009, will ultimately be offset against royalties owed. Management will reevaluate this assumption on a quarterly basis based on actual costs and other relevant factors.

### **Note 7. Warrant Liability**

In November 2008, we sold 13,793,104 units to institutional investors at a price of \$1.45 per unit, for gross proceeds of \$20,000,000. The units, each of which consisted of one share of common stock and a warrant to purchase 0.75 shares of common stock at an exercise price of \$2.30 per share, were offered as a registered direct offering under an effective shelf registration statement previously filed with and declared effective by the SEC. We received total proceeds, net of offering expenses and placement agency fees, of approximately \$18,637,000. We recorded the fair value of the warrants to purchase 10,344,828 shares of our common stock as a liability. The fair value of the warrant liability is revalued at the end of each reporting period, with the change in fair value of the warrant liability recorded as a gain or loss in our Consolidated Statements of Operations. We used the Black-Scholes option pricing

## Table of Contents

model to estimate the fair value of these warrants. In using this model, we make certain assumptions about risk-free interest rates, dividend yields, volatility and expected term of the warrants. Risk-free interest rates are derived from the yield on U.S. Treasury debt securities. Dividend yields are based on our historical dividend payments, which have been zero to date. Volatility is derived from the historical volatility of our common stock as traded on Nasdaq. The expected term of the warrants is based on the time to expiration of the warrants from the date of measurement.

The assumptions used for the Black-Scholes option pricing model at September 30, 2009 are as follows:

|                         |        |
|-------------------------|--------|
| Expected life (years)   | 4.62   |
| Risk-free interest rate | 2.39%  |
| Expected volatility     | 77.85% |
| Expected dividend yield | 0%     |

|                                 | <u>At September 30,</u><br><u>2009</u> | <u>At June 30,</u><br><u>2009</u> | <u>Change in</u><br><u>fair value for the</u><br><u>quarter ended</u><br><u>September 30, 2009</u> |
|---------------------------------|--|-----------------------------------|--|
| Fair value of warrant liability | \$ 9,262,448                           | \$ 11,092,862                     | \$ (1,830,414)   |

The fair value of the warrants will continue to be classified as a liability until such time as the warrants are exercised, expire or an amendment of the warrant agreement renders these warrants to be no longer classified as a liability.

### **Note 8. Common Stock**

On June 8, 2009, we filed a prospectus supplement that relates to the issuance and sale, from time to time, of up to \$30,000,000 of our common stock, through our sales agent Cantor Fitzgerald & Co (Cantor). These sales will be made pursuant to the terms of a sales agreement with Cantor, under which we will pay Cantor a fee of 3.0% of the gross proceeds. The prospectus is a part of a registration statement that we filed with the SEC on June 25, 2008, using a "shelf" registration process. Under this shelf registration process, we may offer to sell in one or more offerings up to a total dollar amount of \$100,000,000. Under our sales agreement with Cantor, in the three-month period ended September 30, 2009, we sold 1,555,000 shares of common stock at a price of approximately \$1.80 per share for gross proceeds of approximately \$2,800,000.

### **Note 9. Acquisition of SCS Operations**

On April 1, 2009, we acquired the operations of SCS for an aggregate purchase price of approximately \$5,135,000. The acquired operations includes proprietary cell technologies relating to embryonic stem cells, induced pluripotent stem (iPS) cells, and tissue-derived (adult) stem cells; expertise and infrastructure for providing cell-based assays for drug discovery; a media formulation and reagent business; and an intellectual property portfolio with claims relevant to cell processing, reprogramming and manipulation, as well as to gene targeting and insertion. These acquired operations will help us pursue applications of our cell technologies to develop cell-based research tools, which we believe represent nearer-term commercial opportunities.

As consideration for the acquired operations, we issued to SCS 2,650,000 shares of common stock and waived certain commitments of SCS to repay approximately \$709,000 in principal and accrued interest owed to us. The closing price of our common stock on April 1, 2009 was \$1.67 per share.

This transaction has been accounted for as a business purchase. We have evaluated the acquired assets and liabilities and believe that the historical cost of the net tangible assets acquired approximated fair market value. The primary method used to calculate the fair value of the intangible assets was the "Excess Earnings Method." These intangible assets will be amortized over their estimated lives.

## Table of Contents

The purchase price has been allocated as follows:

|   | Allocated purchase price | Estimated life of intangible assets in years |
|---|--------------------------|--|
| Net tangible assets                             | \$ 36,000                |  |
| Intangible assets:                              |                          |  |
| Customer relationships and developed technology | 1,310,000                | 6 to 9                                       |
| In process research and development             | 1,340,000                | 13 to 19                                     |
| Trade name                                      | 310,000                  | 15   |
| Goodwill  | 2,139,000                | N/A  |
| Total   | \$ 5,135,000             |  |

In connection with our acquisition of the operations of SCS, and in accordance with U.S. GAAP, our acquisition costs of approximately \$692,000, which primarily consisted of legal and other professional fees, were expensed in the nine-month period ended September 30, 2009. These costs were reported in our condensed consolidated statements of operations as part of our selling, general & administrative expense.

### **Note 10. Subsequent Events**

Subsequent events have been evaluated through November 4, 2009, which represents the issuance date of these unaudited condensed consolidated financial statements.

In November 2009, we raised gross proceeds of \$12,500,000 through the sale to certain institutional investors of 10,000,000 shares of common stock and warrants to purchase 4,000,000 shares of common stock. The common stock and warrants were sold in units, with each unit consisting of (i) one share of common stock and (ii) a warrant to purchase 0.4 of a share of common stock at an exercise price of \$1.50 per share, and the purchase price was \$1.25 per unit. The warrants will generally be exercisable for a period of five years beginning six months after the date of issuance. The shares and warrants were offered as a registered direct offering under our effective shelf registration statement previously filed with the SEC. We received total proceeds, net of offering expenses and placement agency fees, of approximately \$11,900,000. The net proceeds of the financing will be used for general corporate purposes, including working capital, product development and capital expenditures, as well as for other strategic purposes.

In October 2009, we amended the lease agreement for our facility located at the Stanford Research Park in Palo Alto, California, to extend the expiry date of the lease term from March 31, 2010 to August 31, 2011. The aggregate rent payment for the extended lease term is approximately \$3,100,000.

## **ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS**

This report contains forward looking statements within the meaning of Section 27A of the Securities Act and Section 21E of the Securities Exchange Act that involve substantial risks and uncertainties. Such statements include, without limitation, all statements as to expectation or belief and statements as to our future results of operations; the progress of our research, product development and clinical programs; the need for, and timing of, additional capital and capital expenditures; partnering prospects; costs of manufacture of products; the protection of, and the need for, additional intellectual property rights; effects of regulations; the need for additional facilities; and potential market opportunities. Our actual results may vary materially from those contained in such forward-looking statements because of risks to which we are subject, including the fact that additional trials will be required to confirm the safety and demonstrate the efficacy of the Company's HuCNS-SC cells for the treatment of neuronal ceroid lipofuscinosis (NCL, also known as Batten disease) or any other disease; uncertainty as to whether the U.S. Food and Drug Administration (FDA) or other regulatory authorities will permit us to proceed with clinical testing of proposed products despite the novel and unproven nature of our technologies; the risk that one or more of our clinical trials or studies could be substantially delayed beyond their expected dates or cause us to incur substantial unanticipated costs; uncertainties in our ability to obtain the capital resources needed to continue our current research and development operations and to conduct the research, preclinical development and clinical trials necessary for regulatory approvals; uncertainties about the design of future clinical trials and whether the Company will receive the necessary support of a clinical trial site and its institutional review board to pursue future clinical trials in NCL, PMD or in proposed therapies for other diseases or conditions; the uncertainty regarding our ability to obtain a corporate partner or partners, if needed, to support the development and commercialization of our potential cell-based therapeutics products; the uncertainty regarding the outcome of our clinical trials or studies we may conduct in the future; the uncertainty regarding the validity and enforceability of our issued patents; the risk that we may not be able to manufacture additional master and working cell banks when needed; the uncertainty whether any products that may be generated in our cell-based therapeutics programs will prove clinically safe and effective; the uncertainty whether we will achieve significant revenue from product sales or become profitable; uncertainties regarding our obligations with respect to our former encapsulated cell therapy facilities in Rhode Island; obsolescence of our technologies; competition from third parties; intellectual property rights of third parties; litigation risks; and other risks to which we are subject. All forward-looking statements attributable to us or to persons acting on our behalf are expressly qualified in their entirety by the cautionary statements and risk factors set forth in "Risk Factors" in Part II, Item 1A of this report and Part I, Item 1A included in our Annual Report on Form 10-K for the fiscal year ended December 31, 2008.

## Overview

### *The Company*

We are focused on developing and commercializing cell-based technologies. Our research and development (R&D) programs are primarily focused on identifying and developing potential cell-based therapeutics which can either restore or support organ function. In particular, since we relocated our corporate headquarters to California in 1999, our R&D efforts have been directed at refining our methods for identifying, isolating, culturing, and purifying the human neural stem cell and human liver engrafting cells (hLEC) and developing these as potential cell-based therapeutics for the central nervous system (CNS) and the liver, respectively. In our CNS Program, our HuCNS-SC<sup>®</sup> product candidate (purified human neural stem cells) is in clinical development for two indications. In January 2009, we completed a six patient Phase I clinical trial of HuCNS-SC cells in infantile and late infantile neuronal ceroid lipofuscinosis (NCL), two forms of a group of disorders often referred to as Batten disease. The data from this Phase I trial showed that the HuCNS-SC cells were well tolerated, and there was evidence that the donor cells engrafted and survived. In December 2008, the FDA approved our IND to initiate a Phase I clinical trial of HuCNS-SC cells in a second indication, Pelizeaus-Merzbacher Disease (PMD), a fatal myelination disorder in the brain. In September 2009, we announced that we plan to initiate the PMD trial at University of California-San Francisco Children's Hospital. We expect to begin enrolling patients by the end of 2009 and that the trial will take 12-18 months to complete. In addition, our HuCNS-SC cells are in preclinical development for spinal cord injury and retinal disorders. In our Liver Program, we are in preclinical research and development with our human liver engrafting cells and we plan to seek the necessary approvals to initiate a clinical study to evaluate hLEC as a potential cellular therapy, with the initial indication likely to be liver-based metabolic disorders. For a brief description of our significant therapeutic research and development programs see Overview "Research and Development Programs" in the Business Section of Part I, Item 1 included in our Annual Report on Form 10-K for the fiscal year ended December 31, 2008. We have also conducted research on several other cell types and in other areas, which could lead to other possible product candidates, process improvements or further research activities.

On April 1, 2009, we acquired the operations of Stem Cell Sciences Plc (SCS). The acquired business includes proprietary cell technologies relating to embryonic stem cells, induced pluripotent stem (iPS) cells, and tissue-derived (adult) stem cells; expertise and infrastructure for providing cell-based assays for drug discovery; a media formulation and reagent business; and an intellectual property portfolio with claims relevant to cell processing, reprogramming and manipulation, as well as to gene targeting and insertion. These acquired operations will help us pursue applications of our cell technologies to develop cell-based research tools, which we believe represent nearer-term commercial opportunities. See Note 9 "Acquisition of SCS Operations" in the notes to condensed financial statements of Part I, Item 1 of this form 10-Q for further information.

We have not derived any revenue or cash flows from the sale or commercialization of any therapeutic products. Through our acquisition of the SCS operations, we have derived revenue from sales and royalties on sales of cell culture media. We have also derived revenue from licensing rights to our intellectual property. To date, all such revenue has been limited and there can be no assurance that these revenues will increase. As a result, we have incurred annual operating losses since inception and expect to incur substantial operating losses in the future. Therefore, we are dependent upon external financing from equity and debt offerings and revenue from collaborative research arrangements with corporate sponsors to finance our operations. We have no such collaborative research arrangements at this time and there can be no assurance that such financing or partnering revenue will be available when needed or on terms acceptable to us.

Before we can derive revenue or cash inflows from the commercialization of any of our therapeutic product candidates, we will need to: (i) conduct substantial *in vitro* testing and characterization of our proprietary cell types, (ii) undertake preclinical and clinical testing for specific disease indications; (iii) develop, validate and scale-up manufacturing processes to produce these cell-based therapeutics, and (iv) pursue required regulatory approvals. These steps are risky, expensive and time consuming.

Overall, we expect our R&D expenses to be substantial and to increase for the foreseeable future as we continue the development and clinical investigation of our current and future therapeutic product candidates. In addition, we expect our expenses and expenditures to increase as we begin to develop and commercialize non-therapeutic applications of our cell-based technologies. However, expenditures on R&D programs are subject to many uncertainties, including whether we develop our product candidates with a partner or independently. We cannot forecast with any degree of certainty which of our product candidates or technologies will be subject to future collaboration, when such collaboration agreements will be secured, if at all, and to what degree such arrangements would affect our development plans and capital requirements. In addition, there are numerous factors associated with the successful commercialization of any of our cell-based products, including future regulatory requirements and legal restrictions on the procurement of human tissue for medical research, many of which cannot be determined with accuracy at this time given the stage of

## [Table of Contents](#)

our development and the novel nature of stem cell technologies. The regulatory pathways, both in the United States and internationally, are complex and fluid given the novel and, in general, clinically unproven nature of stem cell technologies. At this time, due to such uncertainties and inherent risks, we cannot estimate in a meaningful way the duration of, or the costs to complete, our R&D programs or whether, when or to what extent we will generate revenues or cash inflows from the commercialization and sale of any of our therapeutic product candidates or any non-therapeutic applications of our cell-based technologies. While we are currently focused on advancing each of our product development programs, our future R&D expenses will depend on the determinations we make as to the scientific and clinical prospects of each product candidate, as well as our ongoing assessment of the regulatory requirements and each product candidate's commercial potential.

There can be no assurance that we will be able to develop any product successfully, or that we will be able to recover our development costs, whether upon commercialization of a developed product or otherwise. We cannot provide assurance that any of these programs will result in products that can be marketed or marketed profitably. If certain of our development-stage programs do not result in commercially viable products, our results of operations could be materially adversely affected.

### **Significant Events**

In November 2009, we raised gross proceeds of \$12,500,000 through the sale to certain institutional investors of 10,000,000 shares of common stock and warrants to purchase 4,000,000 shares of common stock. The common stock and warrants were sold in units, with each unit consisting of (i) one share of common stock and (ii) a warrant to purchase 0.4 of a share of common stock at an exercise price of \$1.50 per share, and the purchase price was \$1.25 per unit. The warrants will generally be exercisable for a period of five years beginning six months after the date of issuance. The shares and warrants were offered as a registered direct offering under our effective shelf registration statement previously filed with the SEC. We received total proceeds, net of offering expenses and placement agency fees, of approximately \$11,900,000. The net proceeds of the financing will be used for general corporate purposes, including working capital, product development and capital expenditures, as well as for other strategic purposes.

In October 2009, we announced new preclinical data showing that our human neural stem cells protect cone photoreceptors (cones) in the eye from progressive degeneration and preserve visual function long term. Cones are light sensing cells that are highly concentrated within the macula of the human eye, and the ability to protect these cells suggests a promising approach to treating age-related macular degeneration (AMD), the leading cause of vision loss and blindness in people over the age of 55. These findings were presented at the Society for Neuroscience 2009 Annual Meeting.

In September 2009, we announced the publication of preclinical data demonstrating for the first time that transplantation of our proprietary, purified human neural stem cells delays the loss of motor function in a mouse model of infantile neuronal ceroid lipofuscinosis (NCL). NCL, commonly referred to as Batten disease, is a fatal neurodegenerative disorder in children. This paper, "Neuroprotection of Host Cells by Human Central Nervous System Stem Cells in a Mouse Model of Infantile Neuronal Ceroid Lipofuscinosis," was featured in the September 2009 edition of the peer-reviewed journal *Cell Stem Cell*.

In September 2009, we announced that we plan to initiate with the University of California, San Francisco (UCSF) Children's Hospital a Phase I clinical trial to evaluate the therapeutic potential of our proprietary HuCNS-SC® product candidate (purified human neural stem cells) to treat Pelizaeus-Merzbacher Disease (PMD), a myelination disorder that primarily affects infants and young children. In this trial, patients with a fatal form of PMD will be transplanted with our HuCNS-SC cells to evaluate safety and to explore the ability of the cells to myelinate the patients' nerve axons.

### **Critical Accounting Policies and the Use of Estimates**

The accompanying discussion and analysis of our financial condition and results of operations are based on our condensed consolidated financial statements and the related disclosures, which have been prepared in accordance with U.S. GAAP. The preparation of these condensed consolidated financial statements requires management to make estimates, assumptions, and judgments that affect the reported amounts in our condensed consolidated financial statements and accompanying notes. These estimates form the basis for making judgments about the carrying values of assets and liabilities. We base our estimates and judgments on historical experience and on various other assumptions that we believe to be reasonable under the circumstances, and we have established internal controls related to the preparation of these estimates. Actual results and the timing of the results could differ materially from these estimates.

### ***Stock-Based Compensation***

U.S. GAAP requires us to recognize expense related to the fair value of our stock-based payment awards, including employee stock options. Under the provisions of U.S. GAAP, employee stock-based payment is estimated at the date of grant based on the award's fair value using the Black-Scholes-Merton (Black-Scholes) option-pricing model and is recognized as expense ratably over the requisite service period. The Black-Scholes option-pricing model requires the use of certain assumptions, the most significant of which are our estimates of the expected volatility of the market price of our stock and the expected term of the award. Our estimate of the expected volatility is based on historical volatility. The expected term represents the period during which our stock-based awards are expected to be outstanding. We estimate the expected term based on historical experience of similar awards, giving consideration to the contractual terms of the awards, vesting requirements, and expectation of future employee behavior, including post-vesting terminations.

We review our valuation assumptions at each grant date and, as a result, our assumptions in future periods may change. As of September 30, 2009, total compensation cost related to unvested stock-based awards not yet recognized was approximately \$6,200,000, which is expected to be recognized as expense over a weighted-average period of 2.5 years. See also Note 4, "Stock-Based Compensation," in the notes to condensed consolidated financial statements of Part I, Item 1 of this Form 10-Q for further information.

### ***Wind-down expenses — Rhode Island***

In connection with exiting our research and manufacturing operations in Lincoln, Rhode Island, and the relocation of our corporate headquarters and remaining research laboratories to California in October 1999, we provided a reserve for our estimate of the exit cost obligation. The reserve reflects estimates of the ongoing costs of our former scientific and administrative facility in Lincoln, which we hold on a lease that terminates on June 30, 2013. We are seeking to sublease, assign, sell, or otherwise divest ourselves of our interest in the facility at the earliest possible time, but we cannot determine with certainty a fixed date by which such events will occur, if at all.

In determining the facility exit cost reserve amount, we are required to consider our lease payments through to the end of the lease term and estimate other relevant factors such as facility operating expenses, real estate market conditions in Rhode Island for similar facilities, occupancy rates, and sublease rental rates projected over the course of the leasehold. We re-evaluate the estimate each quarter, taking account of changes, if any, in each underlying factor. The process is inherently subjective because it involves projections over time — from the date of the estimate through the end of the lease — and it is not possible to determine any of the factors, except the lease payments, with certainty over that period.

Management forms its best estimate on a quarterly basis, after considering actual sublease activity, reports from our broker/realtor about current and predicted real estate market conditions in Rhode Island, the likelihood of new subleases in the foreseeable future for the specific facility and significant changes in the actual or projected operating expenses of the property. We discount the projected net outflow over the term of the leasehold to arrive at the present value, and adjust the reserve to that figure. The estimated vacancy rate for the facility is an important assumption in determining the reserve because changes in this assumption have the greatest effect on estimated sublease income. In addition, the vacancy rate estimate is the variable most subject to change, while at the same time it involves the greatest judgment and uncertainty due to the absence of highly predictive information concerning the future of the local economy and future demand for specialized laboratory and office space in that area. The average vacancy rate of the facility over the last six years (2003 through 2008) was approximately 74%, varying from 66% to 89%. As of September 30, 2009, based on current information available to management, the vacancy rate is projected to be approximately 77% for 2009, approximately 73% for 2010 and approximately 70% from 2011 through the end of the lease. These estimates are based on actual occupancy as of September 30, 2009, predicted lead time for acquiring new subtenants, historical vacancy rates for the area, and assessments by our broker/realtor of future real estate market conditions. If the assumed vacancy rate from 2010 to the end of the lease had been 5% higher or lower at September 30, 2009, then the reserve would have increased or decreased by approximately \$146,000. Similarly, a 5% increase or decrease in the operating expenses for the facility from 2010 on would have increased or decreased the reserve by approximately \$93,000, and a 5% increase or decrease in the assumed average rental charge per square foot would have increased or decreased the reserve by approximately \$43,000. Management does not wait for specific events to change its estimate, but instead uses its best efforts to anticipate them on a quarterly basis. See Note 5 "Wind-down expenses," in the notes to condensed consolidated financial statements of Part I, Item 1 of this Form 10-Q for further information.

**Wind-down expenses — Australia**

On April 1, 2009, as part of our acquisition of the SCS operations, we acquired operations near Melbourne, Australia. In order to reduce operating complexity and expenses, we made the decision to close our site in Australia and consolidate personnel and programs to our Cambridge, U.K. and Palo Alto, California sites. U.S. GAAP requires that a liability for a cost associated with an exit or disposal activity be recognized when the liability is incurred. In accordance with U.S. GAAP requirements, at June 30, 2009, we established a short-term reserve of approximately \$310,000 for the estimated costs to close down and exit our Australia operations. The reserve reflects the estimated cost for an early termination of our facility lease in Australia (with an original termination date of December 31, 2010), employee termination benefits and other liabilities associated with the wind-down and relocation of our operations in Australia.

**Business Combinations**

The operating results of acquired companies or operations are included in our consolidated financial statements starting on the date of acquisition. Goodwill is recorded at the time of an acquisition and is calculated as the difference between the aggregate consideration paid for an acquisition and the fair value of the net tangible and intangible assets acquired. Accounting for acquisitions requires extensive use of accounting estimates and judgments to allocate the purchase price to the fair value of the net tangible and intangible assets acquired, including in-process research and development (IPR&D). Goodwill and intangible assets deemed to have indefinite lives are not amortized but are subject to annual impairment tests. If the assumptions and estimates used to allocate the purchase price are not correct, or if business conditions change, purchase price adjustments or future asset impairment charges could be required. We test goodwill for impairment on an annual basis or more frequently if we believe indicators of impairment exist. Impairment evaluations involve management estimates of asset useful lives and future cash flows. Significant management judgment is required in the forecasts of future operating results that are used in the evaluations. It is possible, however, that the plans and estimates used may be incorrect. If our actual results, or the plans and estimates used in future impairment analysis, are lower than the original estimates used to assess the recoverability of these assets, we could incur additional impairment charges in a future period.

**Results of Operations**

Our results of operations have varied significantly from year to year and quarter to quarter and may vary significantly in the future due to the occurrence of material recurring and nonrecurring events, including without limitation the receipt and payment of recurring and nonrecurring licensing payments, the initiation or termination of clinical studies, research collaborations and development programs for both cell-based therapeutic products and research tools, unpredictable or unanticipated manufacturing and supply costs, unanticipated capital expenditures necessary to support our business, expenses arising out of the integration of the acquired SCS operations, developments in on-going patent protection and litigation, the on-going expenses to lease and maintain our Rhode Island facilities, and the increasing costs associated with operating our California and Cambridge, U.K. facilities.

**Revenue and Cost of Product Sales**

Revenue for the three and nine month periods ended September 30, 2009, as compared with the same periods in 2008, is summarized in the table below:

|                                 | Three months ended,<br>September 30 |           | Change in 2009 versus 2008 |        | Nine months ended,<br>September 30 |           | Change in 2009 versus 2008 |      |
|---------------------------------|-------------------------------------|-----------|----------------------------|--------|------------------------------------|-----------|----------------------------|------|
|                                 | 2009                                | 2008      | \$                         | %      | 2009                               | 2008      | \$                         | %    |
| Revenue:                        |                                     |           |                            |        |                                    |           |                            |      |
| Licensing agreements and grants | \$ 98,806                           | \$ 12,379 | \$ 86,427                  | 698%   | \$ 300,260                         | \$ 59,561 | \$ 240,699                 | 404% |
| Product sales                   | 154,362                             | —         | 154,362                    | *      | 274,961                            | —         | 274,961                    | *    |
| Total revenues                  | 253,168                             | 12,379    | 240,789                    | 1,945% | 575,221                            | 59,561    | 515,660                    | 866% |
| Cost of product sales           | (141,453)                           | —         | (141,453)                  | *      | (200,979)                          | —         | (200,979)                  | *    |
| Gross Profit                    | \$ 111,715                          | \$ 12,379 | \$ 99,336                  | 802%   | \$ 374,242                         | \$ 59,561 | \$ 314,681                 | 528% |

\* Calculation is not meaningful

Total revenue in the third quarter of 2009 was approximately \$253,000, which was 698% higher than total revenue in the third quarter of 2008. The increase in 2009 compared to 2008 was primarily attributable to consolidation of revenues from the acquired SCS operations in the third quarter of 2009, which were not part of our operations in the same period in 2008.

*Third quarter ended September 30, 2009 versus third quarter ended September 30, 2008.* Licensing and grant revenue for the third quarter of 2009 were approximately \$86,000, or 698%, higher as compared to the same period in 2008. This increase was primarily attributable to approximately \$44,000 in grant and licensing revenue recognized and consolidated as part of our acquisition of the SCS operations, revenue of approximately \$37,000 from an existing grant which we were awarded in October 2008 from the National Institute of Diabetes and Digestive and Kidney Diseases to research and develop a potential cell-based therapeutic for liver disease, and an increase of approximately \$5,000 in licensing revenue from existing licensing agreements. In the third quarter of 2009, we

## [Table of Contents](#)

recognized approximately \$154,000 and \$141,000 as revenue from product sales and cost of product sales, respectively, in connection with our acquisition of the SCS operations, compared to none in the same period of 2008.

*Nine-month period ended September 30, 2009 versus nine-month period ended September 30, 2008.* Licensing and grant revenue for the nine-month period ended September 30, 2009 were approximately \$241,000, or 404%, higher as compared to the same period in 2008. This increase was primarily attributable to approximately \$136,000 in grant and licensing revenue recognized and consolidated as part of our acquisition of the SCS operations, Revenue of approximately \$89,000 from an existing grant which we were awarded in October 2008 from the National Institute of Diabetes and Digestive and Kidney Diseases to research and develop a potential cell-based therapeutic for liver disease, and an increase of approximately \$16,000 in licensing revenue from existing licensing agreements. For the nine months ended September 30, 2009, we recognized and consolidated approximately \$275,000 and \$201,000 as revenue from product sales and cost of product sales, respectively, in connection with of our acquisition of the SCS operations, compared to none in the same period of 2008.

### **Operating Expenses**

Operating expenses for the three and nine month periods ended September 30, 2009, as compared with the same periods in 2008, are summarized in the table below:

|                                      | Three months ended,<br>September 30 |                     | Change in 2009 versus<br>2008 |        | Nine months ended,<br>September 30 |                      | Change in 2009 versus<br>2008 |     |
|--------------------------------------|-------------------------------------|---------------------|-------------------------------|--------|------------------------------------|----------------------|-------------------------------|-----|
|                                      | 2009                                | 2008                | \$                            | %      | 2009                               | 2008                 | \$                            | %   |
| Operating expenses:                  |                                     |                     |                               |        |                                    |                      |                               |     |
| Research &<br>development            | \$ 4,988,569                        | \$ 4,171,799        | \$ 816,770                    | 20%    | \$ 14,278,958                      | \$ 13,087,165        | \$ 1,191,793                  | 9%  |
| Selling, general &<br>administrative | 2,111,838                           | 1,631,580           | 480,258                       | 29%    | 6,852,724                          | 6,231,629            | 621,095                       | 10% |
| Wind-down expenses                   | (5,679)                             | 53,636              | (59,315)                      | (111)% | 539,821                            | 381,136              | 158,685                       | 42% |
| Total operating expenses             | <u>\$ 7,094,728</u>                 | <u>\$ 5,857,015</u> | <u>\$ 1,237,713</u>           | 21%    | <u>\$ 21,671,503</u>               | <u>\$ 19,699,930</u> | <u>\$ 1,971,573</u>           | 10% |

#### *Research and Development Expenses*

Our R&D expenses consist primarily of salaries and related personnel expenses, costs associated with clinical trials and regulatory submissions; costs associated with preclinical activities such as toxicology studies; costs associated with cell processing and process development; certain patent-related costs such as licensing; facilities related costs such as depreciation; lab equipment and supplies. Clinical trial expenses include payments to vendors such as clinical research organizations, contract manufacturers, clinical trial sites, laboratories for testing clinical samples and consultants. Cumulative R&D costs incurred since we refocused our activities on developing cell-based therapeutics (fiscal years 2000 through the nine months ended September 30, 2009) were approximately \$106 million. Over this period, the majority of these cumulative costs were related to: (i) characterization of our proprietary HuCNS-SC cell, (ii) expenditures for toxicology and other preclinical studies, preparation and submission of applications to regulatory agencies to conduct clinical trials and obtaining regulatory clearance to initiate such trials, all with respect to our HuCNS-SC cells, (iii) preclinical studies and development of our human liver engrafting cells; and (iv) costs associated with cell processing and process development.

We use and manage our R&D resources, including our employees and facilities, across various projects rather than on a project-by-project basis for the following reasons. The allocations of time and resources change as the needs and priorities of individual projects and programs change, and many of our researchers are assigned to more than one project at any given time. Furthermore, we are exploring multiple possible uses for each of our proprietary cell types, so much of our R&D effort is complementary to and supportive of each of these projects. Lastly, much of our R&D effort is focused on manufacturing processes, which can result in process improvements useful across cell types. We also use external service providers to assist in the conduct of our clinical trials, to manufacture certain of our product candidates and to provide various other R&D related products and services. Many of these costs and expenses are complementary to and supportive of each of our programs. Because we do not have a development collaborator for any of our product programs, we are currently responsible for all costs incurred with respect to our product candidates.

## Table of Contents

R&D expenses totaled approximately \$4,989,000 in the third quarter of 2009 compared with \$4,172,000 in the third quarter of 2008, and \$14,279,000 for the nine-month period ended September 30, 2009 compared with \$13,087,000 for the nine-month period ended September 30, 2008.

*Third quarter ended September 30, 2009 versus third quarter ended September 30, 2008.* R&D expense totaled approximately \$4,989,000 in the third quarter of 2009, as compared to \$4,172,000 for the same period in 2008. The increase of approximately \$817,000, or 20%, from 2008 to 2009 was primarily attributable to (i) increased R&D operations of approximately \$471,000 from our acquisition of the SCS operations; R&D activity associated with the SCS operations is primarily focused on developing cell technologies for non-therapeutic applications, such as use in cell-based assays for drug discovery, (ii) an increase in personnel expenses of approximately \$237,000 resulting from an increased head count at our California site to support expanded operations in our cell processing and product development programs; at our California site, we had 50 full time employees in research and development and laboratory support services at September 30, 2009, as compared to 43 at September 30, 2008, and (iii) an increase in consultant expenses of approximately \$142,000. These increased expenses were partially offset by a decrease of approximately \$33,000 in other expenses primarily attributable to supplies.

*Nine-month period ended September 30, 2009 versus nine-month period ended September 30, 2008.* R&D expense totaled approximately \$14,279,000 in the nine-month period ended September 30, 2009, as compared to \$13,087,000 for the same period in 2008. The increase of approximately \$1,192,000, or 9%, from 2008 to 2009 was primarily attributable to (i) increased R&D operations of approximately \$1,118,000 from our acquisition of the SCS operations; R&D activity associated with the SCS operations is primarily focused on developing cell technologies for non-therapeutic applications, such as use in cell-based assays for drug discovery, (ii) an increase in personnel expenses of approximately \$461,000 resulting from an increased head count in our California site to support expanded operations in our cell processing and product development programs; at our California site, we had 50 full time employees in research and development and laboratory support services at September 30, 2009, as compared to 43 at September 30, 2008, and (iii) an increase in consultant expenses of approximately \$197,000. These increased expenses were partially offset by a decrease of approximately \$584,000 in the other expenses primarily attributable to external services and supplies related to manufacturing and testing of our cells and for our six-patient Phase I clinical trial for NCL, which was completed in January 2009.

### *Selling, General and Administrative Expenses*

Selling, general and administrative (SG&A) expenses are primarily comprised of salaries, benefits and other staff related costs associated with sales and marketing, finance, legal, human resources, information technology, and other administrative personnel, facilities and overhead costs, external legal and other external general and administrative services.

SG&A expenses totaled approximately \$2,112,000 in the third quarter of 2009 compared with \$1,632,000 in the third quarter of 2008, and \$6,853,000 for the nine-month period ended September 30, 2009 compared with \$6,232,000 for the nine-month period ended September 30, 2008.

*Third quarter ended September 30, 2009 versus third quarter ended September 30, 2008.* SG&A expenses totaled approximately \$2,112,000 in the third quarter of 2009, compared with \$1,632,000 for the same period in 2008. The increase of approximately \$480,000, or 29%, from 2008 to 2009 was primarily attributable to (i) increased SG&A expenses of approximately \$278,000 at our acquired SCS operations, (ii) an increase in external services of approximately \$169,000 mainly due to an increase in consultant and investor relations expenses, and (iii) an increase of approximately \$33,000 in other expenses.

*Nine-month period ended September 30, 2009 versus nine-month period ended September 30, 2008.* SG&A expenses totaled approximately \$6,853,000 in the nine-month period ended September 30, 2009, compared with \$6,232,000 for the same period in 2008. The increase of approximately \$621,000, or 10%, from 2008 to 2009 was primarily attributable to (i) increased SG&A expenses of approximately \$437,000 at our acquired SCS operations, (ii) approximately \$692,000 of acquisition expenses related to the acquisition of SCS operations, (iii) an increase in personnel expenses of \$250,000 primarily related to stock based compensation, and (iv) an increase in other expenses mainly related to investor relations of approximately \$101,000. These increased expenses were partially offset by a decrease in external services of approximately \$859,000 primarily attributable to a decrease in legal fees.

[Table of Contents](#)

Wind-down Expenses

|                          | Three months ended,<br>September 30 |                  | Nine months ended,<br>September 30 |                   |
|--------------------------|-------------------------------------|------------------|------------------------------------|-------------------|
|                          | 2009                                | 2008             | 2009                               | 2008              |
| Rhode Island             | \$ (5,679)                          | \$ 53,636        | \$ 229,552                         | \$ 381,136        |
| Australia                | —                                   | —                | 310,269                            | —                 |
| Total wind-down expenses | <u>\$ (5,679)</u>                   | <u>\$ 53,636</u> | <u>\$ 539,821</u>                  | <u>\$ 381,136</u> |

Rhode Island

In 1999, in connection with exiting our former research facility in Rhode Island, we created a reserve for the estimated lease payments and operating expenses related to it. The reserve has been re-evaluated and adjusted based on assumptions relevant to real estate market conditions and the estimated time until we could either fully sublease, assign or sell our remaining interests in the property. The reserve was approximately \$5,513,000 at December 31, 2008. Payments net of subtenant income of approximately \$286,000 for the third quarter and \$910,000 for the nine months ended September 30, 2009 were recorded against this reserve. At September 30, 2009, we re-evaluated the estimate and adjusted the reserve to approximately \$4,679,000 by recording in aggregate, a reduction in wind-down expenses of approximately \$6,000 in the third quarter of 2009, for a total of approximately \$230,000 for the nine months ended September 30, 2009. Payments recorded against the reserve were approximately \$316,000 in the third quarter and \$935,000 for the nine months ended September 30, 2008 and additional expenses recorded to adjust the reserve were approximately \$54,000 in the third quarter and \$381,000 for the nine months ended September 30, 2008. Expenses for this facility will fluctuate based on changes in tenant occupancy rates and other operating expenses related to the lease. Even though it is our intent to sublease, assign, sell, or otherwise divest ourselves of our interests in the facility at the earliest possible time, we cannot determine with certainty a fixed date by which such events will occur. In light of this uncertainty, based on estimates, we will periodically re-evaluate and adjust the reserve, as necessary. See Note 5 "Wind-down expenses," in the notes to condensed consolidated financial statements of Part I, Item 1 of this Form 10-Q for further information.

Australia

On April 1, 2009, as part of our acquisition of the SCS operations, we acquired operations near Melbourne, Australia. In order to reduce operating complexity and expenses, we made the decision to close our site in Australia and consolidate personnel and programs to our Cambridge, U.K. and Palo Alto, California sites. U.S. GAAP requires that a liability for a cost associated with an exit or disposal activity be recognized when the liability is incurred. In accordance with U.S. GAAP requirements, at June 30, 2009, we established a short-term reserve of approximately \$310,000 for the estimated costs to close down and exit our Australia operations. The reserve reflects the estimated cost to terminate our facility lease in Australia (with an original termination date of December 31, 2010), employee termination benefits and other liabilities associated with the wind-down and relocation of our operations in Australia. Payments of approximately \$232,000 for the third quarter ended September 30, 2009 were recorded against this reserve. No further adjustments were made to the reserve balance of approximately \$78,000 at September 30, 2009.

Other Income (Expense)

Other income totaled approximately \$1,838,000 in the second quarter of 2009 compared with \$101,000 in the same period of 2008, and other expense of \$495,000 for the nine months ended September 30, 2009 compared with other income of \$636,000 for the nine months ended September 30, 2008.

|   | Three months ended,<br>September 30 |                   | Change in 2009 versus<br>2008 |        | Nine months ended,<br>September 30 |                   | Change in 2009 versus<br>2008 |        |
|---|-------------------------------------|-------------------|-------------------------------|--------|------------------------------------|-------------------|-------------------------------|--------|
|   | 2009                                | 2008              | \$                            | %      | 2009                               | 2008              | \$                            | %      |
| Other income (expense):                   |                                     |                   |                               |        |                                    |                   |                               |        |
| Gain on sale of marketable securities     | \$ —                                | \$ —              | \$ —                          | —      | \$ 397,866                         | \$ —              | \$ 397,866                    | *      |
| Change in fair value of warrant liability | 1,830,414                           | —                 | 1,830,414                     | *      | (822,517)                          | —                 | (822,517)                     | *      |
| Interest income                           | 5,531                               | 138,332           | (132,801)                     | (96)%  | 55,816                             | 738,107           | (682,291)                     | (92)%  |
| Interest expense                          | (27,613)                            | (26,849)          | (764)                         | 3%     | (84,863)                           | (84,010)          | (853)                         | 1%     |
| Other income (expense), net               | 29,940                              | (10,800)          | 40,740                        | (377)% | (41,694)                           | (18,145)          | (23,549)                      | 130%   |
| Total other income (expense), net         | <u>\$ 1,838,272</u>                 | <u>\$ 100,683</u> | <u>\$ 1,737,589</u>           | 1,726% | <u>\$ (495,392)</u>                | <u>\$ 635,952</u> | <u>\$ (1,131,344)</u>         | (178)% |

\* Calculation is not meaningful.

## Table of Contents

### *Gain on Sale of Marketable Equity Securities*

In the first quarter of 2009, we sold in aggregate 2,900,000 shares of ReNeuron and received proceeds of approximately \$510,000. We recognized a realized gain of approximately \$398,000 for that quarter. We did not sell any ReNeuron shares in the second and third quarters of 2009. We owned 1,921,924 ordinary shares of ReNeuron at September 30, 2009.

### *Change in fair value of warrant liability*

In connection with our financing in November 2008, we issued warrants to purchase in aggregate 10,344,828 shares of common stock at an exercise price of \$2.30 per share and recorded the fair value of these warrants as a liability. The fair value of the warrant liability is revalued at the end of each reporting period, with the change in fair value of the warrant liability recorded as a gain or loss in our Consolidated Statements of Operations. We used the Black-Scholes option pricing model to estimate the fair value of these warrants and in using this model, we make certain assumptions about risk-free interest rates, dividend yields, volatility and expected term of the warrants. See Note 7 “Warrant Liability” in the Notes to condensed consolidated financial statements of Part I, Item 1 of this Form 10-Q for further information.

## [Table of Contents](#)

|   |              |
|---|--------------|
| Fair value of warrant liability at December 31, 2008          | \$ 8,439,931 |
| Change in fair value for the quarter ended March 31, 2009     | 2,755,448    |
| Fair value of warrant liability at March 31, 2009             | 11,195,379   |
| Change in fair value for the quarter ended June 30, 2009      | (102,517)    |
| Fair value of warrant liability at June 30, 2009              | 11,092,862   |
| Change in fair value for the quarter ended September 30, 2009 | (1,830,414)  |
| Fair value of warrant liability at September 30, 2009         | \$ 9,262,448 |

### *Interest Income*

Interest income for the three months ended September 30, 2009 decreased by approximately \$133,000, or 96%, compared to the same period in 2008. For the nine months ended September 30, 2009, interest income decreased by approximately \$682,000, or 92%, compared to the same period in 2008. The decreases in 2009 were primarily due to a lower average yield. See "Cash Used in Investing Activities," in Liquidity and Capital Resources below for further information.

### *Interest Expense*

Interest expense for the three and nine months ended September 30, 2009, was relatively flat when compared to similar periods in 2008. Interest expense is primarily for outstanding debt and capital lease balances. See Note 6 "Commitment and Contingencies," in the notes to condensed consolidated financial statements of Part I, Item 1 of this Form 10-Q for further information.

## **Liquidity and Capital Resources**

Since our inception, we have financed our operations through the sale of common and preferred stock, the issuance of long-term debt and capitalized lease obligations, revenue from collaborative agreements, research grants, license fees, and interest income.

|   | September 30,<br>2009 | December 31,<br>2008 | Change<br>\$ | %    |
|---|-----------------------|----------------------|--------------|------|
| Cash, cash equivalents and marketable debt securities | \$33,206,323          | \$34,037,775         | \$(831,452)  | (2)% |

In summary, our cash flows were:

|  | Nine months ended September 30, |                | Change in<br>2009<br>Versus 2008 |        |
|--|---------------------------------|----------------|----------------------------------|--------|
|  | 2009                            | 2008           | \$                               | %      |
| Net cash used in operating activities              | \$(18,491,364)                  | \$(17,165,645) | \$ (1,325,719)                   | 8%     |
| Net cash provided by(used in) investing activities | \$ (1,048,348)                  | \$ 23,372,726  | \$(24,421,074)                   | (104)% |
| Net cash provided by financing activities          | \$ 17,936,157                   | \$ 204,276     | \$ 17,731,881                    | 8,680% |

### ***Net Cash Used in Operating Activities***

Net cash used in operating activities in the first nine months of 2009 increased by approximately \$1,326,000 or 8% when compared to the same period of 2008. Cash used in operating activities is primarily driven by our net loss but operating cash flows differ from net loss due to non-cash charges or differences in the timing of cash flows.

### ***Net Cash Provided by (Used in) Investing Activities***

The decrease of approximately \$24,421,000 or 104% from 2008 to 2009 for net cash provided by (used in) investing activities, was primarily attributable to a higher number of marketable debt securities maturing in the first nine months of 2008 as compared to the similar period in 2009.

### ***Net Cash Provided by Financing Activities***

The increase from 2008 to 2009 of approximately \$17,732,000 for net cash provided by financing activities was primarily attributable to gross proceeds of approximately \$18,454,000 from the sale of 9,817,400 shares of common stock at an average price of

## Table of Contents

\$1.88 per share in the nine months ended September 30, 2009. These shares were sold under sales agreements with Cantor Fitzgerald & Co. (“Cantor”).

Listed below are key financing transactions entered into by us in the last three years:

- In November 2009, we raised gross proceeds of \$12,500,000 through the sale to certain institutional investors of 10,000,000 shares of common stock and warrants to purchase 4,000,000 shares of common stock. The common stock and warrants were sold in units, with each unit consisting of (i) one share of common stock and (ii) a warrant to purchase 0.4 of a share of common stock at an exercise price of \$1.50 per share, and the purchase price was \$1.25 per unit. The warrants will generally be exercisable for a period of five years beginning six months after the date of issuance. The shares and warrants were offered as a registered direct offering under our effective shelf registration statement previously filed with the SEC. We received total proceeds, net of offering expenses and placement agency fees, of approximately \$11,900,000. The net proceeds of the financing will be used for general corporate purposes, including working capital, product development and capital expenditures, as well as for other strategic purposes.
- In June 2009 and July 2009, we sold a total of 1,830,000 shares of common stock under a sales agreement with Cantor, which we entered into and filed a Prospectus Supplement to announce, in June 2009. These shares were sold at an average price of approximately \$1.80 per share for gross proceeds of approximately \$3,291,000. Under the terms of the agreement, up to \$30,000,000 worth of shares may be sold from time to time under a shelf registration statement and Cantor is paid compensation equal to 3.0% of the gross proceeds of such sales.
- From January 2007 through June 2009, we sold a total of 10,000,000 shares of common stock under a separate sales agreement with Cantor, which we entered into and filed a Prospectus Supplement to announce, in December 2006. These shares were sold at an average price of \$2.06 per share for gross proceeds of approximately \$20,555,000. Under the terms of this agreement, up to 10,000,000 shares could be sold from time to time under a shelf registration statement and Cantor was paid compensation equal to 5.0% of the gross proceeds.
- In November 2008, we sold 13,793,104 units to institutional investors at a price of \$1.45 per unit, for gross proceeds of \$20,000,000. The units, each of which consisted of one share of common stock and a warrant to purchase 0.75 shares of common stock at an exercise price of \$2.30 per share, were offered as a registered direct offering under an effective shelf registration statement previously filed with and declared effective by the SEC. We received total proceeds net of offering expenses and placement agency fees of approximately \$18,637,000.
- In April 2006, we sold 11,750,820 shares of our common stock to institutional investors at a price of \$3.05 per share, for gross proceeds of approximately \$35,840,000. The shares were offered as a registered direct offering under an effective shelf registration statement previously filed with and declared effective by the SEC. We received total proceeds, net of offering expenses and placement agency fees, of approximately \$33,422,000. No warrants were issued as part of this financing transaction.

We have incurred significant operating losses and negative cash flows since inception. We have not achieved profitability and may not be able to realize sufficient revenue to achieve or sustain profitability in the future. We do not expect to be profitable in the next several years, but rather expect to incur additional operating losses. We have limited liquidity and capital resources and must obtain significant additional capital resources in order to sustain our product development efforts, for acquisition of technologies and intellectual property rights, for preclinical and clinical testing of our anticipated products, pursuit of regulatory approvals, acquisition of capital equipment, laboratory and office facilities, establishment of production capabilities, for selling, general and administrative expenses and other working capital requirements. We rely on cash balances and proceeds from equity and debt offerings, proceeds from the transfer or sale of our intellectual property rights, equipment, facilities or investments, and government grants and funding from collaborative arrangements, if obtainable, to fund our operations.

We intend to pursue opportunities to obtain additional financing in the future through equity and debt financings, grants and collaborative research arrangements. On June 25, 2008 we filed with the SEC a universal shelf registration statement, declared effective July 18, 2008, which permits us to issue up to \$100 million worth of registered debt and equity securities. Under this effective shelf registration, we have the flexibility to issue registered securities, from time to time, in one or more separate offerings or other transactions with the size, price and terms to be determined at the time of issuance. Registered securities issued using this shelf may be used to raise additional capital to fund our working capital and other corporate needs, for future acquisitions of assets, programs or businesses, and for other corporate purposes. As of November 2, 2009, we had approximately \$48 million under our universal shelf registration statement available for issuing debt or equity securities; approximately \$30 million of this \$48 million has been reserved for the potential exercise of the warrants issued in connection with our November 2008 and November 2009 financings.

## [Table of Contents](#)

The source, timing and availability of any future financing will depend principally upon market conditions, interest rates and, more specifically, on our progress in our exploratory, preclinical and future clinical development programs. Funding may not be available when needed — at all, or on terms acceptable to us. Lack of necessary funds may require us, among other things, to delay, scale back or eliminate some or all of our research and product development programs, planned clinical trials, and/or our capital expenditures or to license our potential products or technologies to third parties. In addition, the decline in economic activity, together with the deterioration of the credit and capital markets, could have an adverse impact on potential sources of future financing.

### **Commitments**

See Note 6, “Commitments and Contingencies” in the notes to condensed consolidated financial statements of Part I, Item 1 of this Form 10-Q for further information.

### **Off-Balance Sheet Arrangements**

We have certain contractual arrangements that create potential risk for us and are not recognized in our Consolidated Balance Sheets. Discussed below are those off-balance sheet arrangements that have or are reasonably likely to have a material current or future effect on our financial condition, changes in financial condition, revenue or expenses, results of operations, liquidity, capital expenditures or capital resources.

#### *Operating Leases*

We lease various real properties under operating leases that generally require us to pay taxes, insurance, maintenance, and minimum lease payments. Some of our leases have options to renew.

#### *Operating Leases — California*

We entered into and amended a lease agreement for an approximately 68,000 square foot facility located at the Stanford Research Park in Palo Alto, California. At September 30, 2009, we had a space-sharing agreement covering approximately 10,451 square feet of this facility. We receive base payments plus a proportionate share of the operating expenses based on square footage over the term of the agreement. We expect to receive, in aggregate, approximately \$152,000 as part of the space-sharing agreement for the remainder of 2009. As a result of the above transactions, our estimated net cash outlay for rent and operating expenses will be approximately \$800,000 for the remainder of 2009.

#### *Operating Leases — Rhode Island*

We continue to have outstanding obligations in regard to our former facilities in Lincoln, Rhode Island. In 1997, we had entered into a fifteen-year lease for a scientific and administrative facility in a sale and leaseback arrangement. The lease includes escalating rent payments. We expect to pay approximately \$293,000 in operating lease payments and estimated operating expenses of approximately \$150,000, before receipt of sub-tenant income, for the remainder of 2009. We expect to receive, in aggregate, approximately \$94,000 in sub-tenant rent and operating expense for the remainder of 2009. As a result of the above transactions, our estimated cash outlay net of sub-tenant rent for the facility will be approximately \$349,000 for the remainder of 2009.

#### *Operating Leases — United Kingdom*

On April 1, 2009, as part of our acquisition of the operations of SCS, we acquired operations in Cambridge, U.K.. Our wholly-owned subsidiary, Stem Cell Sciences UK Ltd, has two lease agreements with Babraham Bioscience Technologies Ltd., for in aggregate space of approximately 3,900 square feet of office and lab space in Cambridge, U.K.. The lease term for one ends on February 28, 2010 and the other on March 26, 2011. For these two leases, at September 30, 2009, we expect to pay approximately 27,500 U.K. pounds (GBP) as rental payments for the remainder of 2009.

#### *Operating Leases — Australia*

On April 1, 2009, as part of our acquisition of the operations of SCS, we acquired operations near Melbourne, Australia. Our wholly-owned subsidiary, Stem Cell Sciences (Australia) Pty Ltd, is in a lease agreement with Monash University for approximately 1,938 square feet of office and lab space in Victoria, Australia. The lease term ends on December 31, 2010. In order to reduce operating complexity and expenses, we made the decision to close our site in Australia and consolidate personnel and programs to our Cambridge, U.K. and Palo Alto, California sites. We signed an agreement with the landlord to terminate our obligations under the lease and paid approximately \$86,000 in consideration. See Note 5 “Wind-down expenses,” in the notes to condensed consolidated financial statements of Part I, Item 1 of this Form 10-Q for further information.

## [Table of Contents](#)

With the exception of leases discussed above, we have not entered into any off balance sheet financial arrangements and have not established any special purpose entities. We have not guaranteed any debts or commitments of other entities or entered into any options on non-financial assets.

### **Contractual Obligations**

During the first nine months of 2009, we believe that there have been no significant changes in our payments due under contractual obligations, as disclosed in our Annual Report on Form 10-K for the year ended December 31, 2008.

### **Recent Accounting Pronouncements**

In August 2009, the FASB issued an Accounting Standard Update (ASU) under the topic “*Fair Value Measurements and Disclosures — Measuring Liabilities at Fair Value*.” This ASU provides amendments for fair value measurements of liabilities. It provides clarification that under circumstances in which, a quoted price in an active market for the identical liability is not available, a reporting entity is required to measure fair value using one or more techniques prescribed in this update. This ASU also clarifies that when estimating a fair value of a liability, a reporting entity is not required to include a separate input or adjustment to other inputs relating to the existence of a restriction that prevents the transfer of the liability. This ASU is effective for the first reporting period (including interim periods) beginning after issuance or fourth quarter 2009. The Company is assessing the impact, if any, of this ASU on our financial condition, results of operations, and disclosures.

### **ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK**

Our market risks at September 30, 2009 have not changed materially from those discussed in Item 7A of our Form 10-K for the year ended December 31, 2008 on file with the U.S. Securities and Exchange Commission.

See also Note 2, “Financial Assets,” in the notes to condensed consolidated financial statements in Part I, Item 1 of this Form 10-Q.

### **ITEM 4. CONTROLS AND PROCEDURES**

In response to the requirement of the Sarbanes-Oxley Act of 2002, as of the end of the period covered by this report, our chief executive officer and chief financial officer, along with other members of management, reviewed the effectiveness of the design and operation of our disclosure controls and procedures. Such controls and procedures are designed to ensure that information required to be disclosed in the Company’s Exchange Act reports 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 management, including the chief executive officer and the chief financial officer, as appropriate, to allow timely decisions regarding required disclosure. Based on this evaluation, the chief executive officer and chief financial officer have concluded that the Company’s disclosure controls and procedures are effective.

During the most recent quarter, there were no changes in internal controls over financial reporting that occurred during the period covered by this report that have materially affected, or are reasonably likely to materially affect, these controls of the Company.

## **PART II-OTHER INFORMATION**

### **ITEM 1. LEGAL PROCEEDINGS**

In July 2006, we filed suit against Neuralstem, Inc. in the Federal District Court for the District of Maryland, alleging that Neuralstem’s activities violate claims in four of the patents we exclusively licensed from NeuroSpheres. In December 2006, Neuralstem petitioned the U.S. Patent and Trademark Office (PTO) to reexamine two of the patents in our infringement action against Neuralstem, namely U.S. Patent No. 6,294,346 (claiming the use of human neural stem cells for drug screening) and U.S. Patent No. 7,101,709 (claiming the use of human neural stem cells for screening biological agents). In April 2007, Neuralstem petitioned the PTO to reexamine the remaining two patents in the suit, namely U.S. Patent No. 5,851,832 (claiming methods for proliferating human neural stem cells) and U.S. Patent No. 6,497,872 (claiming methods for transplanting human neural stem cells). These requests were granted by the PTO and, in June 2007, the parties voluntarily agreed to stay the pending litigation while the PTO considered these

## Table of Contents

reexamination requests. In April 2008, the PTO upheld the '832 and '872 patents, as amended, and issued Notices of Intent to Issue an Ex Parte Reexamination Certificate for both. In May 2009, the PTO upheld the '346 and '709 patents, as amended, and issued Notices of Intent to Issue an Ex Parte Reexamination Certificate for both.

In May 2008, we filed a second patent infringement suit against Neuralstem and its two founders, Karl Johe and Richard Garr. In this suit, which we filed in the Federal District Court for the Northern District of California, we allege that Neuralstem's activities infringe claims in two patents we exclusively license from NeuroSpheres, specifically U.S. Patent No. 7,361,505 (claiming composition of matter of human neural stem cells derived from any source material) and U.S. Patent No. 7,115,418 (claiming methods for proliferating human neural stem cells). In addition, we allege various state law causes of action against Neuralstem arising out of its repeated derogatory statements to the public about our patent portfolio. Also in May 2008, Neuralstem filed suit against us and NeuroSpheres in the Federal District Court for the District of Maryland seeking a declaratory judgment that the '505 and '418 patents are either invalid or are not infringed by Neuralstem and that Neuralstem has not violated California state law. In August 2008, the California court transferred our lawsuit against Neuralstem to Maryland for resolution on the merits. In July 2009, the Maryland District Court granted our motion to consolidate these two cases with the litigation we initiated against Neuralstem in 2006. In August 2009, the Maryland District Court approved a scheduling order submitted by the parties for discovery and trial.

In addition to the actions described above, in April 2008, we filed an opposition to Neuralstem's European Patent No. 0 915 968 (methods of isolating, propagating and differentiating CNS stem cells), because the claimed invention is believed by us to be unpatentable over prior art, including the patents exclusively licensed by us from NeuroSpheres. Neuralstem has responded to this opposition and the parties are currently awaiting a hearing, expected for 2010. In September 2009, we also filed a request with the PTO to reexamine Neuralstem's U.S. Patent No. 5,753,506 (methods of isolating, propagating and differentiating CNS stem cells), which is the U.S. counterpart of Neuralstem's '968 patent in Europe. The PTO granted this reexamination request in October 2009.

### ITEM 1A. RISK FACTORS

There have been no material change from the risk factors disclosed in Part I, Item 1A, of our Annual Report on Form 10-K for the fiscal year ended December 31, 2008 and Part II, Item 1A, of our Quarterly Report on Form 10-Q for the quarter ended March 31, 2009.

### ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS

None.

### ITEM 3. DEFAULTS UPON SENIOR SECURITIES

None.

### ITEM 4. SUBMISSION OF MATTERS TO A VOTE OF SECURITY HOLDERS

None.

### ITEM 5. OTHER INFORMATION

None.

### ITEM 6. EXHIBITS

**Exhibit 10.1** — Amendment to lease, dated October 12, 2009, between the Board of Trustees of the Leland Stanford Junior University and the Registrant

**Exhibit 31.1** — Certification of Martin McGlynn under Section 302 of the Sarbanes-Oxley Act of 2002

[Table of Contents](#)

**Exhibit 31.2** — Certification of Rodney K. B. Young under Section 302 of the Sarbanes-Oxley Act of 2002

**Exhibit 32.1** — Certification of Martin McGlynn Pursuant to 18 U.S.C. Section 1350, As Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

**Exhibit 32.2** — Certification of Rodney K. B. Young Pursuant to 18 U.S.C. Section 1350, As Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

SIGNATURE

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.

STEMCELLS, INC.  
(name of Registrant)

November 4, 2009

/s/ Rodney K. B. Young  
Rodney K. B. Young  
Chief Financial Officer

Exhibit Index

**Exhibit 10.1** — Amendment to lease, dated October 12, 2009, between the Board of Trustees of the Leland Stanford Junior University and the Registrant

**Exhibit 31.1** — Certification of Martin McGlynn under Section 302 of the Sarbanes-Oxley Act of 2002

**Exhibit 31.2** — Certification of Rodney K. B. Young under Section 302 of the Sarbanes-Oxley Act of 2002

**Exhibit 32.1** — Certification of Martin McGlynn Pursuant to 18 U.S.C. Section 1350, As Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

**Exhibit 32.2** — Certification of Rodney K. B. Young Pursuant to 18 U.S.C. Section 1350, As Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

## THIRD AMENDMENT TO LEASE

This Third Amendment to Lease (the "**Amendment**") is made and entered into as of October 12, 2009 (the "**Effective Date**"), by and between THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, a body having corporate powers under the laws of the State of California ("**Landlord**"), and STEMCELLS, INC., a Delaware corporation ("**Tenant**").

A. Landlord and Tenant entered into that certain Restated and Amended Lease dated as of December 19, 2002 as amended by that certain Lease Amendment dated as of August 1, 2003 and that certain Second Amendment to Lease dated April 1, 2005 (as amended, the "**Lease**"), pursuant to which Landlord has leased to Tenant 68,162 rentable square feet in that certain property commonly known as 3155 Porter Drive, Palo Alto, California and more particularly described in the Lease ("**Premises**"). Each capitalized term not defined in this Amendment shall have the same meaning given to such term in the Lease.

B. Landlord and Tenant now desire extend the Term of the Lease, on the terms and conditions more particularly set forth below.

NOW THEREFORE, Landlord and Tenant hereby agree as follows:

**Section 1 Extended Term.** The term of the Lease is hereby extended commencing on April 1, 2010 and expiring on August 31, 2011 ("**Extended Term**") [Tenant shall have no further rights to renew or extend the term of the Lease and Section 3(B) of the Second Amendment to Lease is hereby deleted in its entirety.]

**Section 2 Base Monthly Rent.** The Base Monthly Rent payable by Tenant during the Extended Term shall be as follows:

| Period During<br>Extended Term  | Base Monthly Rent per<br>rentable square foot | Base Monthly Rent |
|---------------------------------|---|-------------------|
| April 1, 2010 — March 31, 2011  | \$2.65  | \$180,629.30      |
| April 1, 2011 — August 31, 2011 | \$2.73  | \$186,082.26      |

**Section 3 Condition of the Premises.** Tenant hereby accepts the Premises in its "as-is" condition, and Landlord shall not be obligated to make any alterations, additions, repairs or improvements or to do any work whatsoever on, to or within the Premises.

**Section 4 Space Sharing Agreement.** The Space Sharing Agreement and Tenant's obligations pursuant to Section 7 of the Second Amendment to Lease shall remain in full force and effect during the Extended Term.

**Section 5 Brokerage Commission.** Landlord is not represented by a broker and Tenant is represented by Cornish & Carey Commercial ("**Tenant's Broker**") with respect to this Amendment Landlord shall pay Tenant's Broker pursuant to the terms of a separate commission agreement. Tenant and Landlord represent and warrant that they have had no other dealings with any other real estate broker or agent in connection with this Amendment. Tenant and Landlord shall indemnify, defend and hold the other harmless from and against all liabilities arising from any other claims of brokerage commissions or finder's fees based on

Tenant's or Landlord's, as applicable, dealings or contacts with brokers or agents, other than, as to Tenant, Tenant's Broker.

**Section 6 Effect of Amendment.** As modified by this Amendment, all of the terms and conditions of the Lease remain unchanged and in full force and effect. In the event of any express conflict or inconsistency between the terms of this Amendment and the terms of the Lease, the terms of this Amendment shall control and govern.

**Section 7 Counterparts.** This Amendment may be executed in any number of counterparts, each of which shall be an original, but all of which, when taken together, shall constitute one and the same instrument.

IN WITNESS WHEREOF, Landlord and Tenant have executed this Amendment as of the Effective Date.

**LANDLORD:**

**TENANT:**

**THE BOARD OF TRUSTEES OF THE LELAND  
STANFORD JUNIOR UNIVERSITY**

**STEMCELLS, INC.,  
a Delaware corporation**

By: 

Name: JEAN SNIDER  
Its: MANAGING DIRECTOR, RE

By: 

Name: Rodney Young  
Its: CFO

CERTIFICATION OF CHIEF EXECUTIVE OFFICER  
UNDER SECTION 302 OF THE SARBANES-OXLEY ACT

I, Martin McGlynn, certify that:

- (1) I have reviewed this quarterly report on Form 10-Q of StemCells, Inc.;
- (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 quarterly report;
- (4) The registrant's other certifying officer(s) 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(s) 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 the registrant's board of directors (or persons performing the equivalent functions):
  - (a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: November 4, 2009

/s/ Martin McGlynn

Martin McGlynn

President and Chief Executive Officer

CERTIFICATION OF CHIEF FINANCIAL OFFICER  
UNDER SECTION 302 OF THE SARBANES-OXLEY ACT

I, Rodney K. B. Young, certify that:

- (1) I have reviewed this quarterly report on Form 10-Q of StemCells, Inc.;
- (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 quarterly report;
- (4) The registrant's other certifying officer(s) 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(s) 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 the registrant's board of directors (or persons performing the equivalent functions):
  - (a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: November 4, 2009

/s/ Rodney K. B. Young

Rodney K. B. Young  
Chief Financial Officer

Certification Pursuant to 18 U.S.C. Section 1350, As Adopted Pursuant to Section 906 of the  
Sarbanes-Oxley Act of 2002

In connection with the StemCells, Inc. (the "Company") quarterly report on Form 10-Q for the period ending September 30, 2009 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Martin McGlynn, President and Chief Executive Officer of the Company, certify pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to the best of my knowledge:

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

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

Date: November 4, 2009

/s/ Martin McGlynn

---

Martin McGlynn  
President and Chief Executive Officer

## Certification Pursuant to 18 U.S.C. Section 1350, As Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

In connection with the StemCells, Inc. (the "Company") quarterly report on Form 10-Q for the period ending September 30, 2009 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Rodney K. B. Young, Chief Financial Officer of the Company, certify pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to the best of my knowledge:

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

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

Date: November 4, 2009

/s/ Rodney K. B. Young

---

Rodney K. B. Young  
Chief Financial Officer