
**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

FORM 10-Q

(Mark One)

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

For the quarterly period ended March 31, 2011

OR

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

For the transition period from to

Commission file number: 001-33277

SYNTA PHARMACEUTICALS CORP.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction
of incorporation or organization)

04-3508648

(I.R.S. Employer Identification No.)

45 Hartwell Avenue

Lexington, Massachusetts

(Address of principal executive offices)

02421

(Zip Code)

Registrant's telephone number, including area code: **(781) 274-8200**

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes ☒ No ☐

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

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

Large accelerated filer ☐

Accelerated filer ☐

Non-accelerated filer ☐

(Do not check if a smaller reporting company)

Smaller reporting company ☒

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

As of May 2, 2011, the registrant had 49,436,818 shares of common stock outstanding.

SYNTA PHARMACEUTICALS CORP.

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PART I - FINANCIAL INFORMATION

Item 1. Financial Statements.

SYNTA PHARMACEUTICALS CORP.

Condensed Consolidated Balance Sheets

(in thousands, except share and per share amounts)

(unaudited)

	March 31, 2011	December 31, 2010
Assets		
Current assets:		
Cash and cash equivalents	\$ 17,372	\$ 31,310
Marketable securities	22,861	19,663
Collaboration receivable	—	116
Prepaid expenses and other current assets	524	431
Total current assets	40,757	51,520
Property and equipment, net	1,752	2,181
Other assets	417	366
Total assets	\$ 42,926	\$ 54,067
Liabilities and Stockholders' Equity		
Current liabilities:		
Accounts payable	\$ 1,691	\$ 1,925
Accrued contract research costs	3,253	2,511
Other accrued liabilities	2,152	4,194
Capital lease obligations	117	201
Deferred collaboration revenue	4,572	4,572
Current portion of term loans	5,529	3,333
Total current liabilities	17,314	16,736
Long-term liabilities:		
Capital lease obligations	23	26
Deferred collaboration revenue	1,017	2,159
Term loans, net of current portion	11,471	11,667
Total long-term liabilities	12,511	13,852
Total liabilities	29,825	30,588
Stockholders' equity:		
Preferred stock, par value \$0.0001 per share Authorized: 5,000,000 shares at March 31, 2011 and December 31, 2010; no shares issued and outstanding at March 31, 2011 and December 31, 2010	—	—
Common stock, par value \$0.0001 per share Authorized: 100,000,000 shares at March 31, 2011 and December 31, 2010; 42,210,506 and 42,090,205 shares issued and outstanding at March 31, 2011 and December 31, 2010, respectively	4	4
Additional paid-in-capital	375,545	374,528
Accumulated other comprehensive income	3	(3)
Accumulated deficit	(362,451)	(351,050)
Total stockholders' equity	13,101	23,479
Total liabilities and stockholders' equity	\$ 42,926	\$ 54,067

See accompanying notes to consolidated financial statements.

SYNTA PHARMACEUTICALS CORP.
Condensed Consolidated Statements of Operations
(in thousands, except share and per share amounts)
(unaudited)

	Three Months Ended March 31,	
	2011	2010
Collaboration revenues:		
License and milestone revenue	\$ 1,143	\$ 1,143
Cost sharing reimbursements, net	—	2,880
Total collaboration revenues	1,143	4,023
Operating expenses:		
Research and development	9,436	10,195
General and administrative	2,673	3,086
Total operating expenses	12,109	13,281
Loss from operations	(10,966)	(9,258)
Interest expense, net	435	50
Net loss	\$ (11,401)	\$ (9,308)
Net loss per common share:		
Basic and diluted net loss per common share	\$ (0.27)	\$ (0.24)
Basic and diluted weighted average number of common shares outstanding	42,008,818	39,451,592

See accompanying notes to consolidated financial statements.

SYNTA PHARMACEUTICALS CORP.
Condensed Consolidated Statements of Cash Flows
(in thousands)
(unaudited)

	Three Months Ended March 31,	
	2011	2010
Cash flows from operating activities:		
Net loss	\$ (11,401)	\$ (9,308)
Adjustments to reconcile net loss to net cash used in operating activities:		
Stock-based compensation expense	827	1,087
Depreciation and amortization	439	515
Changes in operating assets and liabilities:		
Collaboration receivable	116	(396)
Prepaid expenses and other current assets	(93)	(196)
Other assets	(51)	207
Accounts payable	(234)	(2,495)
Accrued contract research costs	742	492
Other accrued liabilities	(2,042)	(1,278)
Deferred collaboration revenue	(1,142)	(1,217)
Net cash used in operating activities	<u>(12,839)</u>	<u>(12,589)</u>
Cash flows from investing activities:		
Purchases of marketable securities	(14,534)	—
Maturities of marketable securities	11,342	—
Purchases of property and equipment	(10)	—
Net cash used in investing activities	<u>(3,202)</u>	<u>—</u>
Cash flows from financing activities:		
Proceeds from issuance of common stock and exercise of common stock options, net of transaction costs	190	26,699
Proceeds from term loan	2,000	—
Payment of capital lease obligations	(87)	(348)
Net cash provided by financing activities	<u>2,103</u>	<u>26,351</u>
Net (decrease) increase in cash and cash equivalents	<u>(13,938)</u>	<u>13,762</u>
Cash and cash equivalents at beginning of period	31,310	44,155
Cash and cash equivalents at end of period	<u>\$ 17,372</u>	<u>\$ 57,917</u>
Supplemental disclosure of cash flow information:		
Cash paid for interest	\$ 371	\$ 48

See accompanying notes to consolidated financial statements.

SYNTA PHARMACEUTICALS CORP.

Notes to Consolidated Financial Statements

(1) Nature of Business

Synta Pharmaceuticals Corp. (the Company) was incorporated in March 2000 and commenced operations in July 2001. The Company is a biopharmaceutical company focusing on discovering, developing and commercializing small molecule drugs to extend and enhance the lives of patients with severe medical conditions, including cancer and chronic inflammatory diseases.

The Company is subject to risks common to emerging companies in the drug development and pharmaceutical industry including, but not limited to, uncertainty of product development and commercialization, lack of marketing and sales history, dependence on key personnel, uncertainty of market acceptance of products, product liability, uncertain protection of proprietary technology, potential inability to raise additional financing and compliance with the U.S. Food and Drug Administration and other government regulations.

(2) Summary of Significant Accounting Policies

Basis of Presentation

The accompanying condensed consolidated financial statements are unaudited, have been prepared on the same basis as the annual financial statements and, in the opinion of management, reflect all adjustments, which include only normal recurring adjustments necessary to present fairly the Company's financial position as of March 31, 2011 and the consolidated results of operations and cash flows for the three months ended March 31, 2011 and 2010. The preparation of financial statements in conformity with accounting principles generally accepted in the United States (GAAP) requires management to make estimates and assumptions that affect the amounts reported in the financial statements and accompanying notes. Actual results could differ from these estimates. The results of operations for the three months ended March 31, 2011 are not necessarily indicative of the results to be expected for the year ending December 31, 2011 or for any other interim period or any other future year. For more complete financial information, these condensed financial statements, and the notes hereto, should be read in conjunction with the audited financial statements for the year ended December 31, 2010 included in the Company's Annual Report on Form 10-K.

Principles of Consolidation

The consolidated financial statements include the financial statements of the Company and its wholly owned subsidiaries. All significant intercompany balances and transactions have been eliminated in consolidation.

Use of Estimates

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect certain reported amounts of assets and liabilities, disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of revenues and expenses during the reporting periods. Significant items subject to such estimates and assumptions include contract research accruals, recoverability of long-lived assets, measurement of stock-based compensation, and the periods of performance under its collaborative research and development agreements. The Company bases its estimates on historical experience and various other assumptions that management believes to be reasonable under the circumstances. Changes in estimates are recorded in the period in which they become known. Actual results could differ from those estimates.

Cash and Cash Equivalents

The Company considers all highly liquid investments with original maturities of three months or less at the date of purchase and an investment in a U.S. Treasury money market fund to be cash equivalents. Changes in cash and cash equivalents may be affected by shifts in investment portfolio maturities, as well as actual cash disbursements to fund operations.

The primary objective of the Company's investment activities is to preserve its capital for the purpose of funding operations and the Company does not enter into investments for trading or speculative purposes. The Company invests in money market funds and high-grade, short-term commercial paper, which are subject to minimal credit and market risk. The Company's cash is deposited in a highly rated financial institution in the United States. Declines in interest rates, however, would reduce future investment income.

Marketable Securities

Marketable securities consist of investments in high-grade corporate obligations, and government and government agency obligations that are classified as available-for-sale. Since these securities are available to fund current operations they are classified as current assets on the consolidated balance sheets.

The Company adjusts the cost of available-for-sale debt securities for amortization of premiums and accretion of discounts to maturity. The Company includes such amortization and accretion in interest and investment income. Realized gains and losses and declines in value, if any, that the Company judges to be other-than-temporary on available-for-sale securities are reported in interest and investment income. To determine whether an other-than-temporary impairment exists, the Company considers whether it intends to sell the debt security and, if the Company does not intend to sell the debt security, it considers available evidence to assess whether it is more likely than not that it will be required to sell the security before the recovery of its amortized cost basis. During the three months ended March 31, 2011 and 2010, the Company determined that no securities were other-than-temporarily impaired.

Marketable securities are stated at fair value, including accrued interest, with their unrealized gains and losses included as a component of accumulated other comprehensive loss, which is a separate component of stockholders' equity. The fair value of these securities is based on quoted market prices. Realized gains and losses are determined on the specific identification method. During the three months ended March 31, 2011 and 2010, the Company recorded no realized gains or losses on marketable securities.

Fair Value of Financial Instruments

The carrying amounts of the Company's financial instruments, which include cash equivalents, marketable securities, accounts payable and capital lease and term loan obligations, approximate their fair values. The fair value of the Company's financial instruments reflects the amounts that would be received upon sale of an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The fair value hierarchy has the following three levels:

Level 1—quoted prices in active markets for identical assets and liabilities.

Level 2—inputs other than Level 1 inputs that are either directly or indirectly observable, such as quoted market prices, interest rates and yield curves.

Level 3—unobservable inputs that reflect the Company's own assumptions about the assumptions market participants would use in pricing the asset or liability.

Financial assets and liabilities are classified in their entirety based on the lowest level of input that is significant to the fair value measurement. As of March 31, 2011, the Company's financial assets valued based on Level 1 inputs consisted of cash and cash equivalents in a U.S. Treasury money market fund and its financial assets valued based on Level 2 inputs consisted of corporate, government and government-agency bonds that are guaranteed by the U.S. government. As of March 31, 2011, the Company had no financial liabilities that were subject to fair value measurement.

Revenue Recognition

Collaboration and License Agreements

The Company's principal source of revenue is from collaborative research and development agreements, which may include upfront license payments, development milestones, reimbursement of research and development costs, profit sharing payments, sales milestones and royalties. The application of accounting rules requires subjective analysis and requires management to make estimates and assumptions about whether deliverables within multiple-element arrangements are separable from the other aspects of the contractual arrangement into separate units of accounting and to determine the fair value to be allocated to each unit of accounting.

In October 2009, the Financial Accounting Standards Board issued a new accounting standard, ASU No. 2009-13 *Multiple-deliverable Revenue Arrangements*, which amends the guidance on the accounting for arrangements involving the delivery of more than one element. This standard addresses the determination of the unit(s) of accounting for multiple-element arrangements and how the arrangement's consideration should be allocated to each unit of accounting. The Company adopted this new accounting standard on a prospective basis for all multiple-element arrangements entered into on or after January 1, 2011 and for any multiple-element arrangements that were entered into prior to January 1, 2011 but materially modified on or after January 1, 2011.

Pursuant to the new standard, each required deliverable is evaluated to determine if it qualifies as a separate unit of accounting. For the Company this determination is generally based on whether the deliverable has "stand-alone value" to the customer. The arrangement's consideration is then allocated to each separate unit of accounting based on the relative selling price of each deliverable. The estimated selling price of each deliverable is determined using the following hierarchy of values: (i) vendor-specific objective evidence of fair value, (ii) third-party evidence of selling price, and (iii) best estimate of the selling price (BESP). The BESP reflects the Company's best estimate of what the selling price would be if the deliverable was regularly sold by it on a stand-alone basis. The Company expects, in general, to use BESP for allocating consideration to each deliverable. In general, the consideration allocated to each unit of accounting is then recognized as the related goods or services are delivered limited to the consideration not contingent upon future deliverables.

For multiple-element arrangements entered into prior to January 1, 2011 and not materially modified thereafter, the Company continues to apply its prior accounting policy with respect to such arrangements. Under this policy, in general, revenue from non-refundable, upfront fees related to intellectual property rights/licenses where the Company has continuing involvement is recognized ratably over the estimated period of ongoing involvement because there was no objective and reliable evidence of fair value for any undelivered item to allow the delivered item to be considered a separate unit of accounting. This requirement with respect to the fair value of undelivered items was eliminated in the newly issued accounting standard. In general, the consideration with respect to the other deliverables is recognized when the goods or services are delivered.

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The Company's deliverables under its collaboration agreement with Hoffman-La Roche (Roche), including the related rights and obligations, contractual cash flows and performance periods, are more fully described in Note 8. Certain of the deliverables have been combined as a single unit of accounting.

The cash flows associated with the single unit of accounting from the research and development portions of the Company's collaborations are recognized as revenue using a time-based model. Under this model, cash flow streams are recognized as revenue over the estimated performance period. Upon achievement of milestones, as defined in the collaboration agreements, revenue is recognized to the extent the accumulated service time, if any, has occurred. The remainder is deferred and recognized as revenue ratably over the remaining estimated performance period. A change in the period of time expected to complete the deliverable is accounted for as a change in estimate on a prospective basis. Revenue is limited to amounts that are non-refundable and that the Company's collaborators are contractually obligated to pay to the Company.

Royalty revenues are based upon a percentage of net sales. Royalties from the sales of products will be recorded on the accrual basis when results are reliably measurable, collectibility is reasonably assured and all other revenue recognition criteria are met. Sales milestones, which are based upon the achievement of certain agreed-upon sales thresholds, will be recognized in the period in which the respective sales threshold is achieved and collectibility is reasonably assured.

Deferred Collaboration Revenue

Consistent with the Company's policy on revenue recognition, deferred collaboration revenue represents cash received and amounts earned and invoiced for licensing and option fees and milestones, as well as cash received and amounts invoiced for research and development services to be performed by the Company. Such amounts are reflected as deferred collaboration revenue until revenue can be recognized under the Company's revenue recognition policy. Deferred collaboration revenue is classified as current if management believes the Company will complete the earnings process and be able to recognize the deferred amount as revenue within 12 months of the balance sheet date. At March 31, 2011, total deferred collaboration revenue was approximately \$5.6 million, of which \$4.6 million is current.

Stock-Based Compensation

The Company recognizes stock-based compensation expense based on the fair value of stock options granted to employees, officers and directors. The Company uses the Black-Scholes option pricing model as it is the most appropriate valuation method for its option grants. The Black-Scholes model requires inputs for risk-free interest rate, dividend yield, volatility and expected lives of the options. Since the Company has a limited history of stock activity, expected volatility for the period from April 1, 2009 through March 31, 2011 was based upon the weighted average historical volatility data of the Company's common stock and the historical volatility data from several guideline public biotechnology companies similar in size and value to the Company that also have stock compensation plans with similar terms. Prior to April 1, 2009, expected volatility was based solely on historical data from several guideline similar public biotechnology companies with similar stock compensation plans and terms. The Company will continue using its historical volatility and other similar public entity volatility information until its historical volatility alone is relevant to measure expected volatility for future option grants. The Company estimates the forfeiture rate based on historical data. Based on an analysis of historical forfeitures, the Company has applied a forfeiture rate of 10% to all options that vest upon completion of the first year of service following the date of grant. The analysis is re-evaluated at least annually and the forfeiture rate is adjusted as necessary. The risk-free rate for periods within the expected life of the option is based on the U.S. Treasury yield curve in effect at the time of the grant. The expected lives for options granted represent the period of time that options granted are expected to be outstanding. The Company uses the simplified method for determining the expected lives of options.

For awards with graded vesting, the Company allocates compensation costs on a straight-line basis over the requisite service period. The Company amortizes the fair value of each option over each option's service period, which is generally the vesting period.

For the three months ended March 31, 2011 and 2010, the fair value of each employee stock option award was estimated on the date of grant based on the fair value method using the Black-Scholes option pricing valuation model with the following weighted average assumptions:

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	Three Months Ended March 31,	
	2011	2010
Risk-free interest rate	2.55%	2.76%
Expected life in years	6.25 years	6.25 years
Volatility	101%	102%
Expected dividend yield	—	—

The effect of stock-based compensation expense during the three months ended March 31, 2011 and 2010 was as follows (in thousands):

	Three Months Ended March 31,	
	2011	2010
Stock-based compensation expense by type of award:		
Employee stock options	\$ 708	\$ 1,006
Restricted stock	119	81
Total stock-based compensation expense	<u>\$ 827</u>	<u>\$ 1,087</u>
Effect of stock-based compensation expense by line item:		
Research and development	\$ 612	\$ 827
General and administrative	215	260
Total stock-based compensation expense included in net loss	<u>\$ 827</u>	<u>\$ 1,087</u>

Unrecognized stock-based compensation expense as of March 31, 2011 was as follows (in thousands):

	Unrecognized stock compensation expense as of March 31, 2011	Weighted average remaining period (in years)
Employee stock options	\$ 7,010	2.78
Restricted stock	359	1.34
Total	<u>\$ 7,369</u>	<u>2.71</u>

Certain of the employee stock options granted by the Company are structured to qualify as incentive stock options (ISOs). Under current tax regulations, the Company does not receive a tax deduction for the issuance, exercise or disposition of ISOs if the employee meets certain holding requirements. If the employee does not meet the holding requirements, a disqualifying disposition occurs, at which time the Company may receive a tax deduction. The Company does not record tax benefits related to ISOs unless and until a qualifying disposition is reported. In the event of a disqualifying disposition, the entire tax benefit is recorded as a reduction of income tax expense. The Company has not recognized any income tax benefit for the share-based compensation arrangement due to the fact that the Company does not believe it is more likely than not it will recognize any deferred tax assets from such compensation cost recognized in the current period.

Comprehensive Loss

Comprehensive loss is defined as the change in equity of a business enterprise during a period from transactions, and other events and circumstances from non-owner sources. Changes in unrealized gains and losses on marketable securities represents the only difference between the Company's net loss and comprehensive loss.

For the three months ended March 31, 2011 and 2010, comprehensive loss was as follows (in thousands):

	Three Months Ended March 31,	
	2011	2010
Net loss	\$ (11,401)	\$ (9,308)
Changes in other comprehensive loss:		
Unrealized holding gains on marketable securities	6	—
Total comprehensive loss	<u>\$ (11,395)</u>	<u>\$ (9,308)</u>

Segment Reporting

Operating segments are determined based on the way management organizes its business for making operating decisions and assessing performance. The Company has only one operating segment, the discovery, development and commercialization of drug products.

Basic and Diluted Loss Per Common Share

Basic net loss per share is computed using the weighted average number of common shares outstanding during the period, excluding restricted stock that has been issued but is not yet vested. Diluted net loss per common share is computed using the weighted average number of common shares outstanding and the weighted average dilutive potential common shares outstanding using the treasury stock method. However, for the three months ended March 31, 2011 and 2010, diluted net loss per share is the same as basic net loss per share as the inclusion of weighted average shares of unvested restricted common stock and common stock issuable upon the exercise of stock options would be anti-dilutive.

The following table summarizes outstanding securities not included in the computation of diluted net loss per common share as their inclusion would be anti-dilutive:

	March 31,	
	2011	2010
Common stock options	6,064,709	5,882,982
Unvested restricted common stock	84,230	149,800

(3) Cash, Cash Equivalents and Marketable Securities

A summary of cash, cash equivalents and available-for-sale marketable securities held by the Company as of March 31, 2011 and December 31, 2010 is as follows:

	March 31, 2011			
	Cost	Unrealized gains	Unrealized losses	Fair value
	(in thousands)			
Cash and cash equivalents:				
Cash and money market funds (Level 1)	\$ 15,765	\$ —	\$ —	\$ 15,765
U.S. government-sponsored entities due within 3 months of date of purchase (Level 2)	1,607	—	—	1,607
Total cash and cash equivalents	17,372	\$ —	\$ —	\$ 17,372
Marketable securities:				
U.S. government and government sponsored entities due within 1 year of date of purchase (Level 2)	17,321	3	—	17,324
Corporate debt securities due within 1 year of date of purchase (Level 2)	5,537	—	—	5,537
Total marketable securities	22,858	3	—	22,861
Total cash, cash equivalents and marketable securities	\$ 40,230	\$ 3	\$ —	\$ 40,233

	December 31, 2010			
	Cost	Unrealized gains	Unrealized losses	Fair value
	(in thousands)			
Cash and cash equivalents:				
Cash and money market funds (Level 1)	\$ 25,228	\$ —	\$ —	\$ 25,228
U.S. government-sponsored entities and corporate debt securities due within 3 months of date of purchase (Level 2)	6,082	—	—	6,082
Total cash and cash equivalents	31,310	\$ —	\$ —	\$ 31,310
Marketable securities:				
U.S. government and government sponsored entities due within 1 year of date of purchase (Level 2)	19,666	—	(3)	19,663
Total cash, cash equivalents and marketable securities	\$ 50,976	\$ —	\$ (3)	\$ 50,973

(4) Property and Equipment

Property and equipment consist of the following:

	March 31, 2011	December 31, 2010
	(in thousands)	
Laboratory equipment	\$ 12,391	\$ 12,387
Leasehold improvements	4,528	4,528
Computers and software	2,116	2,177
Furniture and fixtures	1,050	1,050
	20,085	20,142
Less accumulated depreciation and amortization	(18,333)	(17,961)
	<u>\$ 1,752</u>	<u>\$ 2,181</u>

Depreciation and amortization expenses of property and equipment, including equipment purchased under capital leases, were approximately \$439,000 and \$515,000 for the three months ended March 31, 2011 and 2010, respectively.

(5) Stockholders' Equity

Subsequent Event — Issuer-Directed Registered Direct Offering

In April 2011, the Company raised approximately \$35.2 million in gross proceeds from the sale of an aggregate of 7,191,731 shares of its common stock at a purchase price of \$4.89 per share, which was the closing price of the Company's common stock on the date of sale, in an issuer-directed registered direct offering. The shares were sold directly to investors without a placement agent, underwriter, broker or dealer, and no warrants were issued as part of this transaction. 1,581,493 shares were sold to certain of its directors and the remainder of the shares were sold to institutional investors. The proceeds to the Company were approximately \$34.8 million after deducting estimated offering expenses payable by the Company.

Equity Line of Credit

In October 2010, the Company entered into a common stock purchase agreement (Purchase Agreement) with Azimuth Opportunity Ltd. (Azimuth) pursuant to which the Company obtained an equity line of credit facility (Facility) under which it may sell, in its sole discretion, and Azimuth is committed to purchase, subject to the terms and conditions set forth in the Purchase Agreement, up to \$35 million or 8,106,329 shares of the Company's common stock, whichever is fewer, over the 18-month term of the agreement. Each draw down is limited in size, unless otherwise mutually agreed by the parties, to the lesser of (i) certain agreed-upon draw down amounts (the largest of which is \$4.25 million), based on the threshold price selected by the Company for the draw down, and (ii) 2.5% of the Company's market capitalization at the time of such draw down. Azimuth is not required to purchase shares of the Company's common stock if the threshold price is less than \$2.00 per share. The per share price of the shares sold in each draw down will be determined based on the daily volume weighted average price of the Company's common stock on each trading day during the draw down period, less a discount ranging from 4.875% to 6%. The Purchase Agreement also provides that, from time to time and in the Company's sole discretion, the Company may grant Azimuth the right to exercise one or more options to purchase additional shares of common stock during each draw down pricing period for the amount of shares based upon the maximum option dollar amount and the option threshold price specified by the Company. There were no transaction fees or warrants issued by the Company to Azimuth in connection with execution of the Purchase Agreement. Shares under the Facility, if issued, will be registered under the Company's registration statement on Form S-3 declared effective by the Securities and Exchange Commission on August 28, 2008. Upon each sale of common stock to Azimuth, the Company will pay to Reedland Capital Partners a placement fee equal to 1.0% of the aggregate dollar amount received by the Company from such sale. To date, no shares have been sold to Azimuth under the Facility. The Purchase Agreement may be terminated by either party at any time.

(6) Stock Plans

The Company's 2006 Stock Plan provides for the grant of incentive stock options, nonstatutory stock options and non-vested stock to employees, officers, directors and consultants to the Company. A total of 6,400,000 shares of common stock have been reserved for issuance under the 2006 Stock Plan. In January 2011, the number of shares of common stock reserved for issuance under the 2006 Stock Plan was increased from 5,100,000 to 6,400,000 pursuant to an "evergreen" provision, which provides for an annual

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increase based on the lesser of 1,300,000 shares, 5% of the Company's then outstanding shares of common stock, or such other amount as the board of directors may determine. This increase was ratified by the board of directors in December 2010. The administration of the 2006 Stock Plan is under the general supervision of the compensation committee of the board of directors. The exercise price of the stock options is determined by the compensation committee of the board of directors, provided that incentive stock options are granted at not less than fair market value of the common stock on the date of grant and expire no later than ten years from the date the option is granted. Options vest over one to four years.

As of March 31, 2011, under its 2001 Stock Plan, which was terminated in March 2006, the Company had options outstanding to purchase 1,895,003 shares of its common stock and had no shares available for future issuance.

As of March 31, 2011, under its 2006 Stock Plan, the Company had options outstanding to purchase 4,169,706 shares of its common stock, had outstanding 84,230 restricted shares of common stock and had available 1,757,364 shares available for future issuance.

The following table summarizes stock option activity during the three months ended March 31, 2011:

	Shares	Weighted average exercise price
Outstanding at January 1	5,326,979	\$ 7.95
Options granted	1,058,665	5.29
Options exercised	(73,927)	2.57
Options cancelled	(247,008)	7.27
Outstanding at March 31	6,064,709	\$ 7.58
Exercisable at March 31	4,001,560	\$ 8.91

The weighted-average grant date fair values of options granted during the three months ended March 31, 2011 and 2010 were \$4.27 and \$3.28, respectively.

Non-Vested ("Restricted") Stock Awards With Service Conditions

The Company's share-based compensation plan provides for awards of restricted shares of common stock to senior management and non-employee directors. Restricted stock awards are subject to forfeiture if employment or service terminates during the prescribed retention period. Restricted shares issued to non-employee directors and senior management vest over the service period.

The following table summarizes unvested restricted shares during the three months ended March 31, 2011:

	Shares	Weighted average grant date fair value
Outstanding at January 1	140,613	\$ 3.84
Granted	52,905	5.26
Vested	(102,757)	3.87
Cancelled	(6,531)	4.84
Outstanding at March 31	84,230	\$ 4.62

(7) Other Accrued Liabilities

Other accrued liabilities consist of the following:

	March 31, 2011	December 31, 2010
	(in thousands)	
Compensation and benefits	\$ 972	\$ 2,903
Professional fees	759	921
Other	421	370
	<u>\$ 2,152</u>	<u>\$ 4,194</u>

(8) Collaborative License Agreement with Roche

In December 2008, as amended in February 2010 and February 2011, the Company and Roche entered into a collaborative license agreement (the Roche Agreement) to discover, develop, and commercialize small-molecule drugs targeting calcium release-activated calcium modulator (CRACM) channels. The goal of this alliance is to develop a novel category of oral, disease-modifying agents for the treatment of rheumatoid arthritis and other autoimmune diseases and inflammatory conditions. The Roche Agreement consists of the following funding streams: an upfront license payment, reimbursements of certain research and development costs, product development milestones, sales milestones and product royalty payments.

Pursuant to the Roche Agreement, the Company received a non-refundable upfront license payment of \$16 million in January 2009. Roche reimbursed all of the Company's research and certain early development costs based upon research and development plans agreed to by the parties. These costs included committed research support over the initial two year research term that concluded on December 31, 2010. The Company has received approximately \$21.2 million in research and development support under the Roche Agreement. The Company does not expect to receive any additional research and development support under the Roche Agreement in 2011. Roche received worldwide rights to develop and commercialize certain products, referred to as Licensed Compounds, which were identified and studied prior to the end of the initial two year research term. For these Licensed Compounds, Roche is responsible for development and commercialization, while the Company retains certain co-development and co-promotion rights. In February 2011, the Roche Agreement was amended to extend the term of the research license to enable Roche to continue performing research on certain compounds until June 30, 2011. The amendment also provided for the return to the Company of certain Licensed Compounds. The Company retains all development and commercialization rights for its CRACM inhibitor compounds other than the specified Licensed Compounds licensed to Roche under the Roche Agreement.

The Company is also eligible to receive additional payments, for each of three licensed products, should specified development and commercialization milestones be successfully achieved. Development milestones across multiple indications of up to \$245 million could be earned for the first product, and up to half of this amount could be earned for each of the second and third products. Commercialization milestones of up to \$170 million could be earned for each of three products. The Company will receive tiered royalties on sales of all approved, marketed products. Roche may terminate the agreement on a licensed compound-by-compound basis upon providing advance written notice.

The \$16 million non-refundable upfront license payment is being recognized ratably using the time-based model over the estimated performance period through June 2012. In each of the three months ended March 31, 2011 and 2010, the Company recognized \$1.1 million of license revenue under the Roche Agreement. Reimbursements of research and development costs to the Company by Roche were recorded as cost sharing revenue in the period in which the related research and development costs were incurred. In the three months ended March 31, 2011 and 2010, the Company recognized \$0 and \$2.9 million, respectively, of cost sharing revenue under the Roche Agreement. As the initial research term concluded in December 2010, the Company does not expect to earn any cost sharing revenue under the Roche Agreement in 2011. Development milestones will be recognized as collaboration revenue using the time-based model over the same performance period. No development milestones have been achieved as of March 31, 2011.

(9) Term Loans

General Electric Capital Corporation

In September 2010, the Company entered into a \$15 million loan and security agreement with General Electric Capital Corporation (GECC) and one other lender, all of which was funded at the closing in September 2010 (the GECC Term Loan). Interest on the borrowings under the GECC Term Loan accrues at an annual rate of 9.75%. The Company will make interest-only payments through June 2011, followed by 27 equal monthly payments of principal plus accrued interest on the outstanding balance. In addition to the interest payable under the GECC Term Loan, the Company paid origination fees in the amount of \$150,000 and is obligated to pay an exit fee of \$450,000 at the time of the final payment of the outstanding principal. These amounts are being amortized and accreted, respectively, to interest expense over the term of the GECC Term Loan. The Company paid approximately \$177,000 of legal fees and expenses in connection with the GECC Term Loan. These expenses have been deferred and, together with the \$150,000 origination fees, are included in other assets, and will be expensed over the term of the GECC Term Loan. In the three months ended March 31, 2011, the Company recognized approximately \$67,000 in interest expense in connection with these origination, exit and transaction fees and expenses. In the three months ended March 31, 2011, the Company recognized approximately \$357,000 in interest expense related to the outstanding principal under the GECC Term Loan. No warrants were issued in connection with the

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GECC Term Loan. The Company may prepay the full amount of the GECC Term Loan, subject to prepayment premiums under certain circumstances.

The GECC Term Loan is secured by substantially all of the Company's assets, except its intellectual property. The Company has granted GECC a springing security interest in its intellectual property in the event the Company is not in compliance with certain cash burn covenants, as defined. The GECC Term Loan contains restrictive covenants, including the requirement for the Company to receive prior written consent of GECC to enter into loans, other than up to \$4.0 million of equipment financing, restrictions on the declaration or payment of dividends, restrictions on acquisitions, and customary default provisions that include material adverse events, as defined. The Company has determined that the risk of subjective acceleration under the material adverse events clause is remote and therefore has classified the outstanding principal in current and long-term liabilities based on the timing of scheduled principal payments. In addition, at the time of the closing of the GECC Term Loan, the Company was required to repay approximately \$787,000 of remaining principal outstanding under its existing equipment leases with GECC.

Oxford Finance Corporation

In March 2011, the Company entered into a \$2 million loan and security agreement with Oxford Finance Corporation (Oxford), all of which was funded at the closing in March 2011 (the Oxford Term Loan). Interest on the borrowings under the Oxford Term Loan accrues at an annual rate of 13.35%. Beginning in May 2011, the Company will make 36 equal monthly payments of principal plus accrued interest on the outstanding balance. In addition to the interest payable under the Oxford Term Loan, the Company paid approximately \$79,000 of administrative and legal fees and expenses in connection with the Oxford Term Loan. These expenses have been deferred and are included in other assets, and will be expensed over the term of the Oxford Term Loan. No warrants were issued in connection with the Oxford Term Loan. The Company may prepay the full amount of the Oxford Term Loan, subject to prepayment premiums under certain circumstances. Oxford has the right to require the Company to prepay the full amount of the Oxford Term Loan if the Company prepays the full amount of the GECC Term Loan under certain circumstances.

The Oxford Term Loan is secured by certain laboratory and office equipment, furniture and fixtures acquired through September 30, 2010. In connection with the Oxford Term Loan, Oxford and GECC entered into a Lien Subordination Agreement, whereby GECC granted Oxford a first priority perfected security interest in the loan collateral. The Oxford Term Loan contains restrictive covenants, including the requirement for the Company to receive the prior written consent of Oxford to enter into acquisitions in which the Company incurs more than \$2.0 million of related indebtedness, and customary default provisions that include material adverse events, as defined. The Company has determined that the risk of subjective acceleration under the material adverse events clause is remote and therefore has classified the outstanding principal in current and long-term liabilities based on the timing of scheduled principal payments.

Future principal payments under the GECC and Oxford Term Loans as of March 31, 2011 are approximately as follows (in thousands):

<u>Year Ending December 31,</u>	
2011	\$ 3,711
2012	7,301
2013	5,724
2014	264
	<u>\$ 17,000</u>

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

You should read this discussion together with the consolidated financial statements, related notes and other financial information included elsewhere in this Quarterly Report on Form 10-Q. The following discussion may contain predictions, estimates and other forward-looking statements that involve a number of risks and uncertainties, including those discussed under "Risk Factors" in our Annual Report on Form 10-K for the year ended December 31, 2010 filed with the Securities and Exchange Commission. These risks could cause our actual results to differ materially from any future performance suggested below.

Overview

Synta Pharmaceuticals Corp. is a biopharmaceutical company focused on discovering, developing, and commercializing small molecule drugs to extend and enhance the lives of patients with severe medical conditions, including cancer and chronic inflammatory diseases. We have two drug candidates in clinical trials for treating multiple types of cancer and several drug candidates in the preclinical stage of development. Each of our drug candidates was discovered and developed internally using our proprietary, unique chemical compound library and integrated discovery engine. We have granted Hoffman-La Roche, or Roche, an exclusive license to develop and commercialize certain compounds from our calcium release activated calcium modulator, or CRACM, program resulting from our research partnership with them. We retain full ownership of all of our other drug candidates.

We believe that our competitive advantages include: the broad clinical and commercial potential of our drug candidates; the strength of our intellectual property portfolio, consisting of over 700 issued and pending patents; our proprietary chemical compound library and the strength of our drug discovery platform, with which we have generated all of our drug candidates; our ability to integrate discovery, translational, and clinical research to optimize our scientific and clinical choices and further strengthen our intellectual property position; our operational experience in effectively managing large-scale, global clinical programs; the ownership of our programs, which creates strategic flexibility in partnership discussions that can be used to enhance the value we may ultimately capture from our drug candidates; our strong network of relationships with leading investigators and institutions, which facilitates our ability to conduct clinical trials efficiently; and the skills, talent, and level of industry experience of our employees. We believe that these competitive advantages provide us with multiple, sustainable growth opportunities.

We were incorporated in March 2000 and commenced operations in July 2001. Since that time, we have been principally engaged in the discovery and development of novel drug candidates. As of March 31, 2011, we have funded our operations principally with \$311.7 million in net proceeds from private and public offerings of our equity, and \$17.0 million in gross proceeds from two term loans, including \$15 million from a term loan that was executed in September 2010 with General Electric Capital Corporation, or GECC, and one other lender, and \$2 million from a term loan that was executed in March 2011 with Oxford Finance Corporation, or Oxford. In October 2010, we obtained a committed equity line of credit facility with Azimuth Opportunity Ltd., or Azimuth, under which we may sell up to a maximum of \$35 million or 8,106,329 shares of our common stock, whichever is fewer, over the 18-month term of the agreement, subject to certain conditions and limitations. To date, no shares have been sold to Azimuth under this facility.

In April 2011, we raised approximately \$34.8 million in net proceeds from the sale of an aggregate of 7,191,731 shares of our common stock at a purchase price of \$4.89 per share, which was the closing price of our common stock on the date of sale, in an issuer-directed registered direct offering. The shares were sold directly without a placement agent, underwriter, broker or dealer, and no warrants were issued as part of this transaction.

In addition to raising capital from financing activities, we have also received substantial capital from partnering activities. In October 2007, we entered into a global collaborative development, commercialization and license agreement with GlaxoSmithKline, or GSK, for the joint development and commercialization of elesclomol. This collaboration was terminated in September 2009. In December 2008, as amended, we entered into a collaborative license agreement with Roche, or the Roche Agreement, for our CRACM inhibitor program, which is currently in the preclinical stage. As of March 31, 2011, we have received \$167.2 million in nonrefundable partnership payments under these agreements with GSK and with Roche, including \$96 million in upfront payments, \$50 million in operational milestones and \$21.2 million in research and development funding. As of March 31, 2011, these nonrefundable partnership payments together with the net cash proceeds from equity financings, the term loans from GECC and Oxford, and the exercise of common stock warrants and options, provided aggregate net cash proceeds of approximately \$497.6 million. We have also generated funds from government grants, equipment lease financings and investment income. We are engaged in preliminary partnership discussions for a number of our programs, which may provide us with additional financial resources if consummated.

We have devoted substantially all of our capital resources to the research and development of our drug candidates. Since our inception, we have had no revenues from product sales. As of March 31, 2011, we had an accumulated deficit of \$362.5 million. We

expect to incur significant operating losses for the foreseeable future as we advance our drug candidates from discovery through preclinical development and clinical trials, and seek regulatory approval and eventual commercialization. We will need to generate significant revenues from product sales to achieve future profitability and may never do so.

Oncology Programs

We have two clinical-stage programs and one preclinical-stage program in oncology:

Ganetespib (Hsp90 Inhibitor)

Ganetespib (formerly STA-9090) is a potent, synthetic, small molecule inhibitor of Hsp90, a chaperone protein that is essential to the function of certain other proteins that drive the growth, proliferation, and survival of many different types of cancer. Many of the known oncogenic proteins that play major roles in pathogenesis of solid tumor and hematologic malignancies are client proteins of Hsp90. By inhibiting Hsp90, ganetespib causes the degradation of these client proteins and the subsequent death of cancer cells dependent on these growth factors. Ganetespib is structurally unrelated to the ansamycin family of first-generation Hsp90 inhibitors (such as 17-AAG and IPI-504) and has shown superior activity to these agents in preclinical studies.

Ganetespib is currently being evaluated in a broad range of clinical trials, including trials in non-small-cell lung, colon, gastric, prostate, breast, pancreatic, small-cell lung, ocular melanoma, hepatic and hematologic cancers. In total, over 350 patients have been treated with ganetespib to date. In these trials and our Phase 1 studies, ganetespib has shown clear evidence of clinical activity, including objective responses and prolonged tumor shrinkage in patients who have progressed after, or failed to respond to, treatment with commonly-used drugs for these tumors. The safety profile has been favorable, with no evidence of the serious bone marrow toxicities and neuropathy often seen with chemotherapy, or the serious liver or common ocular toxicities seen with other Hsp90 inhibitors. The most common adverse event seen with ganetespib is diarrhea, which has been manageable with standard supportive care.

In February 2011, we announced the presentation of interim results from a Phase 2 trial of ganetespib in non-small cell lung cancer, or NSCLC. Patients in this trial had failed to respond to, or progressed following treatment with, numerous prior therapies for lung cancer. Clear evidence of clinical activity was observed following treatment with ganetespib as a monotherapy, including durable, objective tumor responses, as measured by industry-standard Response Evaluation Criteria in Solid Tumors, or RECIST, in certain patients.

In April 2011, we presented additional preclinical results for ganetespib at the Annual Meeting of the American Association for Cancer Research, or AACR. These results included the enhancement of radiotherapy by ganetespib, potent activity in models of EGFR wild-type lung cancer, and findings related to the mechanism by which ganetespib achieves these effects. Results from a Phase 1 canine trial of STA-1474, a drug that is chemically related to ganetespib and under evaluation in veterinary applications, were also presented. Ganetespib showed encouraging single agent activity in these dogs with cancer, including the ability to induce objective responses in a significant fraction of these dogs.

The favorable safety profile seen to date with ganetespib, together with the preclinical results demonstrating that treatment with ganetespib can inhibit mechanisms of resistance to certain chemotherapies or kinase inhibitors, support a combination therapy approach to clinical development. The combination approach involves trials evaluating the safety and activity of administering ganetespib together with certain agents. Results to date suggest potential for combining ganetespib and taxanes — docetaxel or paclitaxel. These include a strong scientific rationale; the strong synergy seen between ganetespib and taxanes in preclinical models; the well-tolerated safety profile seen in our ongoing Phase 1 combination study for the two agents; and the safety and activity seen in our Phase 2 NSCLC trial in those patients who received both ganetespib and docetaxel.

Based on these supportive results for the combination approach, together with the encouraging clinical activity seen with ganetespib as a single agent in NSCLC, we are planning to initiate a Phase 2b/3 trial in NSCLC of ganetespib plus docetaxel versus docetaxel alone in the second quarter of 2011. This trial is being designed as a registration-enabling program with two stages. The first stage is an approximately 240 patient Phase 2b portion designed to establish the clinical benefit and safety profile of ganetespib in combination with docetaxel relative to docetaxel alone. The first stage of this trial will be used to build the clinical and operational experience needed to optimize the design of the second stage, Phase 3 portion of the trial. For example, we may use information obtained in the Phase 2b stage of the trial to refine patient inclusion/exclusion criteria to enrich the Phase 3 portion with those patients that show the greatest benefit from the addition of ganetespib. The second stage, Phase 3 portion of the trial is expected to enroll between 400 to 600 patients.

In addition to the Phase 2b/3 trial in NSCLC, we expect to initiate a number of new investigator-sponsored or foundation-sponsored trials in 2011, including trials in combination with radiotherapy; a trial in melanoma; a randomized, combination trial in acute myeloid leukemia, or AML; additional combination trials in breast and prostate cancers; and a trial in multiple myeloma, both as a single agent and in combination with Velcade. The clinical trial in multiple myeloma is supported by a grant of up to \$1 million by the Multiple Myeloma Research Foundation.

Elesclomol (Mitochondria-Targeting Agent)

Elesclomol is a first-in-class, investigational drug candidate that triggers programmed cell death, or apoptosis, in cancer cells through a novel mechanism: disrupting cancer cell mitochondrial metabolism.

Elesclomol binds copper in plasma, which causes a change in conformation that enables its uptake through membranes and into cells. Elesclomol binds copper in an oxidative, positively charged, state called Cu(II). Once inside mitochondria, an interaction with the electron transport chain reduces the copper from Cu(II) to Cu(I), resulting in a cascade of redox reactions, a rapid increase of oxidative stress, disruption of mitochondrial energy production, and the initiation of the mitochondrial apoptosis pathway.

Mitochondria generate energy for cells, but also can induce apoptosis under certain conditions, such as a high level of oxidative stress. By sensitizing mitochondria and reducing barriers to apoptosis, elesclomol may provide a means to overcome resistance to traditional chemotherapy or targeted therapy.

Elesclomol targets active cancer cell mitochondria, which use oxygen for energy production. In laboratory experiments, anti-cancer activity of elesclomol has been shown to correlate with certain biomarkers, including lactate dehydrogenase, or LDH, which can distinguish between active mitochondria (sufficient oxygen) and inactive mitochondria (insufficient oxygen). Consistent with these findings, results from three randomized clinical trials with elesclomol have established that patient baseline serum level of LDH is an important predictor of elesclomol treatment outcome. All current and planned trials with elesclomol incorporate use of these biomarkers to select for patients most likely to benefit from treatment.

Elesclomol is currently in a Phase 2 clinical trial in ovarian cancer in combination with paclitaxel and a Phase 1 clinical trial in AML as a single agent. In the second half of 2011, we plan to initiate a Phase 2b trial for elesclomol in NSCLC with a trial design similar to our prior Phase 2b trial for elesclomol in NSCLC. This new trial is expected to enroll approximately 180 patients, and will include a dose-escalation and safety portion to optimize the dose selection for the Phase 2b portion.

STA-9584 (Vascular Disrupting Agent)

STA-9584 is a novel, injectable, small molecule compound that appears to disrupt the blood vessels that supply tumors with oxygen and essential nutrients, and is in preclinical development.

In November 2010, we announced that the United States Department of Defense, or DoD, recommended a \$1 million grant for the development of STA-9584, in advanced prostate cancer. In March 2011, the DoD formally approved this \$1 million grant and we will be initiating work on this study in the second quarter of 2011.

Our Inflammatory Disease Programs

We have two preclinical-stage programs focusing on treatments for inflammatory diseases. Both of our inflammatory disease programs focus on oral, disease-modifying drug candidates that act through novel mechanisms and could potentially target multiple indications.

CRACM Ion Channel Inhibitors

We have developed novel, small molecule inhibitors of CRACM ion channels expressed on immune cells. Our CRACM ion channel inhibitors have shown strong anti-inflammatory activity in preclinical studies both *in vitro* and *in vivo*, inhibiting T cell and mast cell activity, including cytokine release, degranulation, and immune cell proliferation. Potential applications include a wide range of inflammatory diseases and disorders for which modulating T cell and mast cell function has been shown to be critical, including rheumatoid arthritis, or RA, psoriasis, severe asthma, chronic obstructive pulmonary disease, or COPD, transplant rejection, and other autoimmune diseases and inflammatory conditions. As part of our strategic alliance with Roche, Roche is advancing several compounds in preclinical development.

While Roche has an exclusive license to certain specific compounds developed by us during the term of our research collaboration, all other intellectual property rights to our CRACM program are fully owned by us. We have several CRACM inhibitors, not licensed to Roche, in lead optimization. Because there are a number of CRACM ion channel targets on immune cells, we believe that CRACM inhibitor compounds can be developed that target distinct immune cell types, which lead to the potential of distinct families of CRACM inhibitors for treating distinct immune system disease.

Roche CRACM Inhibitor Alliance

In December 2008, we formed a strategic alliance with Roche to discover, develop, and commercialize small-molecule drugs targeting CRACM channels. We refer herein to the agreement, as amended, as the Roche Agreement. The goal of this alliance is to develop a novel category of oral, disease-modifying agents for the treatment of RA and other autoimmune diseases and inflammatory conditions.

Under the terms of the Roche Agreement, we received a \$16 million non-refundable upfront license fee. Roche funded research and development conducted by us, which included discovery and certain early development activities. We have received approximately \$21.2 million in research and development support under the Roche Agreement. Roche received worldwide rights to develop and commercialize certain products, referred to as Licensed Compounds, which were identified and studied prior to the end of the two-year research term that concluded on December 31, 2010. We do not expect to earn any cost sharing revenue or receive any additional research and development support under the Roche Agreement in 2011. Roche is responsible for development and commercialization of the Licensed Compounds, while we retain certain co-development and co-promotion rights. We are also eligible to receive additional payments, for each of three Licensed Compounds, should specified development and commercialization milestones be successfully achieved. Development milestones across multiple indications of up to \$245 million could be earned for the first product, and up to half of this amount could be earned for each of the second and third products. Commercialization milestones of up to \$170 million could be earned for each of three products. We will also receive tiered royalties on sales of all approved, marketed products containing Licensed Compounds.

In the February 2011 amendment of the Roche Agreement, we extended the term of the research license for Roche to continue performing research on certain specified compounds until June 30, 2011. That amendment also provided for the return to us of certain Licensed Compounds. We retain all development and commercialization rights for our CRACM inhibitor compounds other than the specific Licensed Compounds licensed to Roche under the Roche Agreement.

IL-12/23 Inhibitors

We have identified several small molecule IL-12/23 inhibitors that represent a promising opportunity to develop drug candidates that could be administered orally and potentially address a wide range of serious inflammatory diseases with high unmet medical needs.

Financial Operations Overview

Revenue

We have not yet generated any product revenue and do not expect to generate any product revenue in the foreseeable future, if at all. Our revenues have been generated primarily through partnership agreements with GSK and Roche. The terms of these agreements include payment to us of upfront license fees, milestone payments, research and development cost sharing and royalties. We will seek to generate revenue from product sales and from future collaborative or strategic relationships. Upfront license payments and milestones are recognized ratably as collaboration revenue using the time-based model over the estimated performance period and any changes in the estimated performance period could result in substantial changes to the period over which these revenues are recognized. In the future, we expect any revenue we generate will fluctuate from quarter-to-quarter as a result of the timing and amount of payments received and expenses incurred under future collaborations or strategic relationships, and the amount and timing of payments we receive upon the sale of our drug candidates, to the extent any are successfully commercialized.

Research and Development

Research and development expense consists of costs incurred in connection with developing and advancing our drug discovery technology and identifying and developing our drug candidates. We charge all research and development expenses to operations as incurred.

Our research and development expense consists of:

- internal costs associated with research, preclinical and clinical activities;
- payments to third party contract research organizations, investigative sites and consultants in connection with our preclinical and clinical development programs;

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- costs associated with drug formulation and supply of drugs for clinical trials;
- personnel related expenses, including salaries, stock-based compensation, benefits and travel; and
- overhead expenses, including rent and maintenance of our facilities, and laboratory and other supplies.

We do not know if we will be successful in developing our drug candidates. We believe that accurately projecting total program-specific expenses through commercialization is not possible at this time. The timing and amount of these expenses will depend upon the costs associated with potential future clinical trials of our drug candidates, and the related expansion of our research and development organization, regulatory requirements, advancement of our preclinical programs and product manufacturing costs, many of which cannot be determined with accuracy at this time based on our stage of development. This is due to the numerous risks and uncertainties associated with the duration and cost of clinical trials, which vary significantly over the life of a project as a result of unanticipated events arising during clinical development, including with respect to:

- the number of clinical sites included in the trial;
- the length of time required to enroll suitable subjects;
- the number of subjects that ultimately participate in the trials; and
- the efficacy and safety results of our clinical trials and the number of additional required clinical trials.

Our expenditures are subject to additional uncertainties, including the terms and timing of regulatory approvals and the expense of filing, prosecuting, defending or enforcing any patent claims or other intellectual property rights. In addition, we may obtain unexpected or unfavorable results from our clinical trials. We may elect to discontinue, delay or modify clinical trials of some drug candidates or focus on others. A change in the outcome of any of the foregoing variables in the development of a drug candidate could mean a significant change in the costs and timing associated with the development of that drug candidate. For example, if the U.S. Food and Drug Administration or other regulatory authority were to require us to conduct clinical trials beyond those that we currently anticipate, or if we experience significant delays in any of our clinical trials, we would be required to expend significant additional financial resources and time on the completion of clinical development. Additionally, future commercial and regulatory factors beyond our control will evolve and therefore impact our clinical development programs and plans over time. In 2011, we anticipate that our overall research and development expenses for personnel and external costs will increase as we further advance the clinical development of ganetespib and elesclomol. However, these increases will be offset in part due to the anticipated lower investment in CRACM research following the conclusion on December 31, 2010 of the initial two-year research term under the Roche Agreement.

Beyond our current lead drug candidates, we anticipate that we will select drug candidates and research projects for further development on an ongoing basis in response to their preclinical and clinical success, as well as commercial potential.

General and Administrative

General and administrative expense consists primarily of salaries and related expenses for personnel in executive, finance, business and commercial development, investor and medical community relations, human resources and administrative functions. Other costs include stock-based compensation costs, directors' and officers' liability insurance premiums, legal costs of pursuing patent protection of our intellectual property, fees for general legal, accounting, public-company requirements and compliance, and other professional services, as well as overhead-related costs not otherwise included in research and development. In 2011, we anticipate our general and administrative expenses will remain at levels similar to 2010.

Critical Accounting Policies and Estimates

Our management's discussion and analysis of our financial condition and results of operations are based on our financial statements which have been prepared in accordance with U.S. generally accepted accounting principles, or GAAP. The preparation of these financial statements requires us to make estimates and judgments that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reported periods. We are required to make estimates and judgments with respect to research contract accruals, the recoverability of long-lived assets, measurement of stock-based compensation and the periods of performance under collaborative research and development agreements. We base our estimates on historical experience, known trends and events, and various other factors that are believed to be reasonable under the circumstances, the results of which form the basis for making judgments about the

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carrying values of assets and liabilities that are not readily apparent from other sources and the reported amounts of revenues and expenses. Actual results may differ from these estimates under different assumptions or conditions.

There have been no significant changes to our critical accounting policies in 2011.

In October 2009, the Financial Accounting Standards Board issued a new accounting standard, ASU No. 2009-13 *Multiple-deliverable Revenue Arrangements*, which amends the guidance on the accounting for arrangements involving the delivery of more than one element. This standard addresses the determination of the unit(s) of accounting for multiple-element arrangements and how the arrangement's consideration should be allocated to each unit of accounting. We adopted this new accounting standard on a prospective basis for all multiple-element arrangements entered into on or after January 1, 2011 and for any multiple-element arrangements that were entered into prior to January 1, 2011 but materially modified on or after January 1, 2011. The adoption of this new standard did not have a material impact on our financial statements or results of operations. Refer to Note 2, "Summary of Significant Accounting Policies," in the accompanying notes to the consolidated financial statements.

You should read the following discussion of our reported financial results in conjunction with the critical accounting policies disclosed in our Annual Report on Form 10-K for the year ended December 31, 2010, as filed with the Securities and Exchange Commission on March 11, 2011.

Consolidated Results of Operations

Three Months Ended March 31, 2011 Compared with Three Months Ended March 31, 2010

Collaboration Revenue

	Three Months Ended March 31,		2011 to 2010 Change	
	2011	2010	\$	%
	(dollars in millions)			
License and milestone revenue—Roche	\$ 1.1	\$ 1.1	—	—%
Cost sharing reimbursements, net—Roche	—	2.9	(2.9)	(100)%
Total collaboration revenue	\$ 1.1	\$ 4.0	\$ (2.9)	(73)%

In 2011 as compared to 2010, cost sharing reimbursements from Roche decreased by \$2.9 million as the initial two-year research term under the Roche Agreement concluded on December 31, 2010 and, accordingly, we do not expect to earn any cost sharing revenue or receive any additional research and development support under the Roche Agreement in 2011.

Research and Development Expense

	Three Months Ended March 31,		2011 to 2010 Change	
	2011	2010	\$	%
	(dollars in millions)			
Clinical-stage drug candidates				
Ganetespib	\$ 6.5	\$ 6.1	\$ 0.4	7%
Elesclomol	1.1	0.7	0.4	57%
Total clinical-stage drug candidates	7.6	6.8	0.8	12%
CRACM	1.7	2.5	(0.8)	(32)%
Early stage programs and other	0.1	0.9	(0.8)	(89)%
Total research and development	\$ 9.4	\$ 10.2	\$ (0.8)	(8)%

In 2011 as compared to 2010, costs incurred under our ganetespib program increased by \$0.4 million, including increases of \$0.3 million for personnel-related costs, related research supplies, operational overhead and stock compensation, and \$0.1 million for external costs. In the first quarter of 2011, costs incurred in connection with start-up activities related to the planned initiation of a randomized, registration-enabling Phase 2b/3 clinical trial of ganetespib in combination with docetaxel in NSCLC in the second quarter of 2011 were offset, in part, by lower costs in several company-sponsored clinical trials that are nearing completion. In 2011, we anticipate that the overall costs under our ganetespib program will continue to increase as we further advance clinical development, including the planned initiation of the Phase 2b/3 clinical trial of ganetespib in combination with docetaxel in NSCLC in the second quarter of 2011 and possible additional clinical trials in other cancer types, as well as the conduct of non-clinical supporting activities.

In 2011 as compared to 2010, costs incurred under our elesclomol program increased by \$0.4 million, including increases of \$0.3 million for personnel-related costs, related research supplies, operational overhead and stock compensation, and \$0.1 million for external costs. These increases were principally related to the commencement of patient enrollment in the Phase 2 clinical trial of elesclomol in combination with paclitaxel in ovarian cancer that is being conducted by the Gynecological Oncology Group and in the Phase 1 clinical trial of elesclomol as a single agent in AML, as well as supporting clinical drug supply. In 2011, we anticipate that the overall costs under our elesclomol program will increase significantly as we further advance clinical development, including the planned initiation of the Phase 2b clinical trial in NSCLC in the second half of 2011. This trial will include a dose-escalation and safety portion to optimize the dose selection for the Phase 2b portion.

In 2011 as compared to 2010, costs incurred under our CRACM program decreased by \$0.8 million, including decreases of \$0.7 million for personnel-related costs, related research supplies, operational overhead and stock compensation, and \$0.1 million for

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external costs. These decreases are the result of a lower investment in CRACM research following the conclusion on December 31, 2010 of the initial two-year research term under the Roche Agreement. In 2011, we anticipate that our costs under the CRACM program will be lower than incurred in 2010.

In 2011 as compared to 2010, costs incurred under our other early-stage programs decreased by \$0.8 million principally due to decreases in personnel-related costs, related research supplies, operational overhead and stock compensation.

General and Administrative Expense

	Three Months Ended March 31,		2011 to 2010 Change	
	2011	2010	\$	%
	(dollars in millions)			
General and administrative	\$ 2.7	\$ 3.1	\$ (0.4)	(13)%

In 2011 as compared to 2010, general and administrative expenses decreased by \$0.4 million principally due to decreases of \$0.3 million for personnel-related costs, operational overhead and stock compensation and \$0.1 million for external costs. In 2011, we anticipate our general and administrative expenses will remain at levels similar to 2010.

Interest expense, net

	Three Months Ended March 31,		2011 to 2010 Change	
	2011	2010	\$	%
	(dollars in millions)			
Interest expense, net	\$ 0.4	\$ —	\$ 0.4	—%

In 2011 as compared to 2010, interest expense increased by \$0.4 million principally due to interest expense in connection with the GECC Term Loan that was executed in September 2010, offset, in part, by lower average principal balances of capital equipment leases. In 2011, we anticipate that interest expense will increase based upon a full year of interest expense related to the GECC Term Loan, as well as interest expense related to the Oxford Term Loan that was executed in March 2011.

Liquidity and Capital Resources

Cash Flows

The following table provides information regarding our cash position, cash flows and capital expenditures for the three months ended March 31, 2011 and 2010:

	Three Months Ended March 31,	
	2011	2010
	(dollars in millions)	
Cash, cash equivalents and marketable securities	\$ 40.2	\$ 57.9
Working capital	23.4	45.9
Cash flows (used in) provided by:		
Operating activities	(12.8)	(12.6)
Investing activities	(3.2)	—
Financing activities	2.1	26.4

Our operating activities used cash of \$12.8 million and \$12.6 million in 2011 and 2010, respectively. The use of cash in these periods principally resulted from our losses from operations, as adjusted for non-cash charges for depreciation and stock-based compensation, and changes in our working capital accounts.

In 2011, our investing activities used cash of \$3.2 million, including purchases of marketable securities in the amount of \$14.5 million, offset by \$11.3 million in maturities of marketable securities in our investment portfolio.

Our financing activities provided cash of \$2.1 million and \$26.4 million in 2011 and 2010, respectively. In 2011, we raised \$2.0 million in gross proceeds from the Oxford Term Loan (as defined below) that was executed in March 2011 and \$0.2 million from the exercise of common stock options. In 2010, we raised \$26.7 million in net proceeds from the sale of 6,388,889 shares of our

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common stock in an underwritten public offering in January 2010. We repaid \$0.1 million and \$0.3 million in capital equipment leases in 2011 and 2010, respectively.

Contractual Obligations and Commitments

As of March 31, 2011, there have been no material changes to the contractual obligations and commitments included in our Annual Report on Form 10-K for the fiscal year ended December 31, 2010. On March 2011, we entered into a \$2.0 million term loan with Oxford as described below.

Term Loans

General Electric Capital Corporation (GECC)

In September 2010, we entered into a \$15 million loan and security agreement with General Electric Capital Corporation, or GECC and one other lender, all of which was funded at the closing in September 2010, which we refer to herein as the GECC Term Loan. Interest on the borrowings under the GECC Term Loan accrues at an annual rate of 9.75%. We will make interest-only payments through June 2011, followed by 27 equal monthly payments of principal plus accrued interest on the outstanding balance, and an exit fee of \$450,000 upon the conclusion of the GECC Term Loan. (See Note 9.)

Oxford Finance Corporation (Oxford)

In March 2011, we entered into a \$2 million loan and security agreement with Oxford Finance Corporation, or Oxford, all of which was funded at the closing in March 2011, which we refer to herein as the Oxford Term Loan. Interest on the borrowings under the Oxford Term Loan accrues at an annual rate of 13.35%. Beginning in May 2011, we will make 36 equal monthly payments of principal plus accrued interest on the outstanding balance. (See Note 9.)

Future principal payments under the GECC and Oxford Term Loans as of March 31, 2011 are approximately as follows (in thousands):

Year Ending December 31,	
2011	\$ 3,711
2012	7,301
2013	5,724
2014	264
	<u>\$ 17,000</u>

Issuer-Directed Registered Direct Offering

In April 2011, we raised approximately \$35.2 million in gross proceeds from the sale of an aggregate of 7,191,731 shares of our common stock at a purchase price of \$4.89 per share, which was the closing price of our common stock on the date of sale, in an issuer-directed registered direct offering. The shares were sold directly to investors without a placement agent, underwriter, broker or dealer, and no warrants were issued as part of this transaction. 1,581,493 shares were sold to certain of our directors and the remainder of the shares were sold to institutional investors. The proceeds to us were approximately \$34.8 million after deducting estimated offering expenses payable by us.

Equity Line of Credit with Azimuth

In October 2010, we entered into a common stock purchase agreement, or the Purchase Agreement, with Azimuth Opportunity Ltd., or Azimuth, pursuant to which we obtained an equity line of credit facility, which we refer to as the Facility, under which we may sell, in our sole discretion, and Azimuth is committed to purchase, subject to the terms and conditions set forth in the Purchase Agreement, up to \$35 million or 8,106,329 shares of our common stock, whichever is fewer, over the 18-month term of the agreement. Upon each sale of common stock to Azimuth, we will pay to Reedland Capital Partners a placement fee equal to 1.0% of the aggregate dollar amount received by us from such sale. To date, no shares have been sold to Azimuth under the Facility.

Liquidity

Funding Requirements

We expect to continue to incur significant operating expenses and capital expenditures and anticipate that our expenses and losses may increase substantially in the foreseeable future as we:

- complete the ongoing and contemplated clinical trials of ganetespib in solid tumors and hematologic cancers and initiate additional clinical trials of ganetespib, including the planned initiation of a Phase 2b/3 clinical trial of ganetespib in combination with docetaxel in NSCLC, if supported by trial results;
- complete preclinical development of an additional Hsp90 inhibitor and initiate clinical trials of this compound, if supported by the preclinical data;
- complete the ongoing clinical trials of elesclomol in AML and ovarian cancers, and initiate additional clinical trials of elesclomol, including the planned initiation of a Phase 2b clinical trial of elesclomol in NSCLC, if supported by trial results;
- complete preclinical development of STA-9584 and initiate clinical trials, if supported by preclinical data;
- advance our CRACM inhibitor compounds not licensed to Roche under the Roche Agreement into preclinical development and initiate clinical trials, if supported by preclinical data;
- discover, develop, and seek regulatory approval for backups of our current drug candidates and other new drug candidates;
- identify additional compounds or drug candidates and acquire rights from third parties to those compounds or drug candidates through licenses, acquisitions or other means; and
- commercialize any approved drug candidates.

Our funding requirements will depend on a number of factors, including:

- the progress and results of our ongoing clinical trials of ganetespib and any additional clinical trials of ganetespib we may initiate in the future, including the planned initiation of a Phase 2b/3 clinical trial of ganetespib in combination with docetaxel in NSCLC, based on the results of these clinical trials;
- the results of preclinical studies of any additional Hsp90 inhibitors we may develop, and our decision to initiate clinical trials, if supported by preclinical data;
- the progress and results of our ongoing clinical trials of elesclomol and any additional clinical trials of elesclomol we may initiate in the future, including the planned initiation of a Phase 2b clinical trial of elesclomol in NSCLC, based on the results of these clinical trials;
- the results of our preclinical studies of STA-9584, and our decision to initiate clinical trials, if supported by the preclinical and other test results;
- the results of our preclinical studies of our CRACM inhibitor compounds not licensed to Roche under the Roche Agreement, and our decision to initiate clinical trials, if supported by the preclinical and other test results;
- Roche's ability to satisfy its obligations under the Roche Agreement, including payment of milestone and royalty payments;
- uncertainty associated with costs, timing, and outcome of regulatory review of our drug candidates;
- the scope, progress, results, and cost of preclinical development, clinical trials, and regulatory review of any new drug candidates we may discover or acquire;

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- the costs of preparing, filing, and prosecuting patent applications and maintaining, enforcing, and defending intellectual property-related claims;
- our ability to establish additional strategic collaborations and licensing or other arrangements on terms favorable to us;
- the costs to satisfy our obligations under potential future collaborations; and
- the timing, receipt, and amount of sales or royalties, if any, from ganetespib, elesclomol, STA-9584, our CRACM inhibitors, our IL-12/23 inhibitors and our other potential products.

As of March 31, 2011, we had \$40.2 million in cash, cash equivalents and marketable securities, a decrease of \$10.8 million from \$51.0 million as of December 31, 2010. This decrease principally reflects cash used in operations as discussed under “Cash Flows” above, offset by \$2 million in gross proceeds from the Oxford Term Loan that was executed in March 2011 and \$0.2 million from the exercise of common stock options.

We do not anticipate that we will generate product revenue in the foreseeable future, if at all. We expect our continuing operations to use cash over the next several years and such cash use may increase significantly from year to year. While we are engaged in multiple preliminary partnership discussions for each of our currently unpartnered programs, including ganetespib, elesclomol, STA-9584, CRACM compounds not licensed by Roche under the Roche Agreement, and our IL-12/23 inhibitors, which could result in one or more new partnership agreements, that may include upfront payments and cost-sharing provisions, there is no guarantee we will be successful in entering into any such partnership agreements on commercially reasonable terms, if at all, or that we will receive any other revenue through these partnership efforts in the future. Based on our current operating levels, we expect our cash resources, inclusive of the \$34.8 million in net proceeds from the equity financing completed in April 2011, will be sufficient to fund operations into the second half of 2012. We continue to evaluate additional potential sources of funding, including partnership agreements, cost or risk-sharing arrangements, equity financings, use of our \$35 million equity line of credit facility or other sources.

We may require significant additional funds earlier than we currently expect in order to conduct additional clinical trials and conduct additional preclinical and discovery activities. Because of the numerous risks and uncertainties associated with the development and commercialization of our drug candidates, we are unable to estimate the amounts of increased capital outlays and operating expenditures associated with our current and anticipated clinical trials.

To the extent our capital resources are insufficient to meet our future capital requirements, we will need to finance our future cash needs through public or private equity offerings, collaboration agreements, debt financings or licensing arrangements. However, the credit markets and the financial services industry have recently been experiencing a period of turmoil and uncertainty that have made equity and debt financing more difficult to obtain. Additional funding may not be available to us on acceptable terms or at all. In addition, the terms of any financing may adversely affect the holdings or the rights of our stockholders. For example, if we raise additional funds by issuing equity securities or by selling convertible debt securities, further dilution to our existing stockholders may result. If we raise funds through collaboration agreements or licensing arrangements, we may be required to relinquish rights to our technologies or drug candidates, or grant licenses on terms that are not favorable to us.

If adequate funds are not available, we may be required to terminate, significantly modify or delay our research and development programs, reduce our planned commercialization efforts, or obtain funds through collaborators that may require us to relinquish rights to our technologies or drug candidates that we might otherwise seek to develop or commercialize independently. Conversely, we may elect to raise additional funds even before we need them if the conditions for raising capital are favorable, including through offerings of securities pursuant to our shelf registration statement on Form S-3, under which we currently have up to \$81.1 million in securities available for issuance, including up to \$35.0 million in shares of common stock that we may offer and sell under the ELOC with Azimuth.

Certain Factors That May Affect Future Results of Operations

The Securities and Exchange Commission, or SEC, encourages companies to disclose forward-looking information so that investors can better understand a company’s future prospects and make informed investment decisions. This Quarterly Report on Form 10-Q contains such “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995.

Words such as “may,” “anticipate,” “estimate,” “expects,” “projects,” “intends,” “plans,” “believes” and words and terms of similar substance used in connection with any discussion of future operating or financial performance, identify forward-looking statements. All forward-looking statements are management’s present expectations of future events and are subject to a number of

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risks and uncertainties that could cause actual results to differ materially and adversely from those described in the forward-looking statements. These risks include, but are not limited to those set forth under the heading “Risk Factors” contained in Item 1A of our Annual Report on Form 10-K for the year ended December 31, 2010 that we have filed with the SEC.

In light of these assumptions, risks and uncertainties, the results and events discussed in the forward-looking statements contained in this Quarterly Report on Form 10-Q might not occur. Stockholders are cautioned not to place undue reliance on the forward-looking statements, which speak only as of the date of this Quarterly Report on Form 10-Q. We are not under any obligation, and we expressly disclaim any obligation, to update or alter any forward-looking statements, whether as a result of new information, future events or otherwise. All subsequent forward-looking statements attributable to Synta or to any person acting on its behalf are expressly qualified in their entirety by the cautionary statements contained or referred to in this section.

Item 3. Quantitative and Qualitative Disclosures About Market Risk.

Interest Rate Sensitivity. As of March 31, 2011, we had cash, cash equivalents and marketable securities of \$40.2 million consisting of cash deposited in a highly rated financial institution in the United States and in a short-term U.S. Treasury money market fund, as well as high-grade commercial paper and government-agency securities that are guaranteed by the U.S. government. The primary objective of our investment activities is to preserve our capital for the purpose of funding operations and we do not enter into investments for trading or speculative purposes. We believe that we did not have material exposure to high-risk investments such as mortgage-backed securities, auction rate securities or other special investment vehicles within our money-market fund investments. We believe that we do not have any material exposure to changes in fair value as a result of changes in interest rates. Declines in interest rates, however, would reduce future investment income. During the three months ended March 31, 2011, our investment income was negligible.

Capital Market Risk. We currently have no product revenues and depend on funds raised through other sources. One possible source of funding is through further equity offerings. Our ability to raise funds in this manner depends upon capital market forces affecting our stock price.

Item 4. Controls and Procedures.

(a) *Evaluation of Disclosure Controls and Procedures.* Our principal executive officer and principal financial officer evaluated the effectiveness of our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended, or the Exchange Act) as of the end of the period covered by this Quarterly Report on Form 10-Q. Based on this evaluation, our principal executive officer and principal financial officer have concluded that our disclosure controls and procedures were effective to ensure that information required to be disclosed by us in the reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the SEC’s rules and forms, and is accumulated and communicated to our management, including our principal executive and principal financial officers, or persons performing similar functions, as appropriate to allow timely decisions regarding required disclosure.

(b) *Changes in Internal Controls.* There were no changes in our internal control over financial reporting, identified in connection with the evaluation of such internal control that occurred during our last fiscal quarter that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

PART II - OTHER INFORMATION

Item 1. Legal Proceedings.

We are currently not a party to any material legal proceedings.

Item 1A. Risk Factors.

There have been no material changes to the risk factors included in our Annual Report on Form 10-K for the fiscal year ended December 31, 2010.

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

None.

Item 3. Defaults Upon Senior Securities.

None.

Item 4. [Removed and Reserved].

Item 5. Other Information.

None.

Item 6. Exhibits.

(a) *Exhibits*

- † 10.1 Second Amendment, executed February 3, 2011, to Collaboration and License Agreement, dated December 23, 2008, as amended, by and between the Registrant and F. Hoffmann-La Roche Ltd, and its affiliate, Hoffman-La Roche Inc.
- 10.2 Second Amendment, dated as of March 3, 2011, to Loan and Security Agreement, dated as of September 30, 2010, as amended, by and among the Registrant, Synta Securities Corp., General Electric Capital Corporation, and MidCap Funding III, LLC.
- 31.1 Certification of principal executive officer under Section 302(a) of the Sarbanes-Oxley Act of 2002.
- 31.2 Certification of principal financial officer under Section 302(a) of the Sarbanes-Oxley Act of 2002.
- 32.1 Certifications of the principal executive officer and the principal financial officer under Section 906 of the Sarbanes-Oxley Act of 2002.
- † Confidential portions of this document have been filed separately with the Securities and Exchange Commission pursuant to a request for confidential treatment.

SIGNATURES

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

SYNTA PHARMACEUTICALS CORP.

Date: May 5, 2011

By: /s/ SAFI R. BAHCALL, PH.D.
Safi R. Bahcall, Ph.D.
President and Chief Executive Officer
(principal executive officer)

Date: May 5, 2011

By: /s/ KEITH S. EHRLICH
Keith S. Ehrlich
Vice President Finance and Administration,
Chief Financial Officer
(principal accounting and financial officer)

SECOND AMENDMENT TO COLLABORATION AND LICENSE AGREEMENT

This Second Amendment (the "Second Amendment") executed on February 3, 2011 is made and effective as of the first (1st) day of January 2011 (the "Second Amendment Effective Date") and amends the Collaboration and License Agreement dated as of December 23, 2008 (as previously amended on February 5, 2010 (the "First Amendment")), between SYNTA PHARMACEUTICALS CORP., a Delaware corporation having a principal office at 45 Hartwell Avenue, Lexington, MA 02421, U.S.A. ("SYNTA"), and F. HOFFMANN-LA ROCHE LTD, a Swiss corporation having a principal office located at Grenzacherstrasse 124, CH-4070 Basel, Switzerland ("ROCHE BASEL") and HOFFMANN-LA ROCHE INC., a New Jersey corporation having a principal office at 340 Kingsland Street, Nutley, New Jersey 07110, U.S.A. ("ROCHE NUTLEY"; ROCHE BASEL and ROCHE NUTLEY together referred to as "ROCHE") (the "Agreement"). Capitalized terms shall have the meaning set forth in the Agreement.

INTRODUCTION

WHEREAS, SYNTA and ROCHE have reached agreement with respect to ROCHE having the right to continue Research related to Licensed Compounds and Potential Licensed Compounds until June 30, 2011;

WHEREAS, the deadline for the JSC approving Licensed Compounds for advancement into Development shall remain June 30, 2011, pursuant to Section 2.3.4(a) of the Agreement, thus the full scope of Licensed Compounds advancing into Development will be known by the end of the day June 30, 2011, and any use of these approved Licensed Compounds will be permitted under the Development and Commercialization License under Section 6.2 of the Agreement;

WHEREAS, SYNTA and ROCHE have reached agreement with respect to ROCHE having the right to conduct all pre-IND Development;

WHEREAS, SYNTA and ROCHE have reached agreement with respect to amending the definition of Licensed Compound to exclude constitutional and geometric isomers;

WHEREAS, SYNTA and ROCHE have reached agreement with respect to ROCHE returning certain Licensed Compounds to SYNTA;

WHEREAS, the Parties wish to amend the Agreement, as described herein.

NOW THEREFORE, for and in consideration of the mutual covenants contained in this Second Amendment, the Parties agree:

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to Synta Pharmaceuticals Corp.'s application requesting confidential treatment under Rule 24b-2 of the Securities Exchange Act of 1934, as amended.

1. Research License. SYNTA hereby grants to ROCHE for the period beginning on the Second Amendment Effective Date and continuing through June 30, 2011, an exclusive, worldwide, paid-up right and license, without the right to grant sublicenses (except in accordance with Section 6.4), under the SYNTA Intellectual Property to enable ROCHE to perform Research relating to Licensed Compounds and Potential Licensed Compounds.
2. Pre-IND Development. Notwithstanding anything to the contrary in the Agreement, Roche shall have the right to perform all pre-IND Development on Licensed Compounds.
3. Definitions. Unless otherwise defined or amended by the terms of this Second Amendment, all initial capitalized defined terms used have the meanings as defined in the Agreement. Section 1.42 of the Agreement is revised in its entirety to read as follows:

“1.42. “Licensed Compound” means [***]. For further clarity, if ROCHE terminates a Licensed Compound in one or more regions pursuant to Section 12.3, such Licensed Compound shall continue to be deemed a Licensed Compound except as provided in Article XII unless and until ROCHE terminates such Licensed Compound in all Regions pursuant to Section 12.3 (whether ROCHE so terminates such Licensed Compound in all Regions simultaneously or terminates such Licensed Compound in all Regions over time). For the sake of clarity, any Licensed Compound shall also include all pro-drugs, metabolites, regioisomers, stereoisomers including enantiomers and diastereoisomers, salt forms, hydrates, solvates and polymorphs of such Licensed Compound, all of which shall constitute a single Licensed Compound. As of the Amendment Effective Date, the compounds identified in Appendix A are deemed to be Licensed Compounds and the compounds identified in Appendix B as Potential Licensed Compounds shall be deemed to be Licensed Compounds if such compounds have met the criteria set forth above on or before June 30, 2011.”

New Section 1.58 *bis* of the Agreement is added to the Agreement and reads as follows:

“1.58 *bis*. “Potential Licensed Compound” means a Collaboration Compound identified in Appendix B.”

4. Return of Compounds. The Licensed Compounds identified in Appendix C shall be returned to Synta and treated as if Roche had terminated the Agreement with respect to such Licensed Compounds. For clarity, these returned Licensed Compounds will be subject to royalty obligations under Section 12.6.8 of the Agreement.
5. Effect on Agreement. Except as amended by this Second Amendment, the Agreement shall remain in full force and effect. After the date of this Second Amendment, every reference in the Agreement to the “Agreement” shall mean the

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to Synta Pharmaceuticals Corp.’s application requesting confidential treatment under Rule 24b-2 of the Securities Exchange Act of 1934, as amended.

Agreement as amended by the Amendment, the First Amendment, and this Second Amendment.

[Remainder of page intentionally left blank.]

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to Synta Pharmaceuticals Corp.'s application requesting confidential treatment under Rule 24b-2 of the Securities Exchange Act of 1934, as amended.

IN WITNESS WHEREOF, the Parties have entered into this Amendment as of the Amendment Execution Date.

SYNTA PHARMACEUTICALS CORP.

By: /s/ Safi Bahcall

Name: Safi Bahcall

Title: President & CEO

F. HOFFMANN-LA ROCHE LTD

By: /s/ Christophe Carissimo By: /s/ Stefan Arnold

Name: Christophe Carissimo

Name: Stefan Arnold

Title: Global Licensing Director

Title: Head Legal Pharma

HOFFMANN-LA ROCHE INC.

By: /s/ James A. Dougherty

Name: James A. Dougherty

Title: Nutley Site Head
Roche Partnering

[Execution Page]

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to Synta Pharmaceuticals Corp.'s application requesting confidential treatment under Rule 24b-2 of the Securities Exchange Act of 1934, as amended.

APPENDIX A

Licensed Compounds

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to Synta Pharmaceuticals Corp.'s application requesting confidential treatment under Rule 24b-2 of the Securities Exchange Act of 1934, as amended.

APPENDIX B

Potential Licensed Compounds

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to Synta Pharmaceuticals Corp.'s application requesting confidential treatment under Rule 24b-2 of the Securities Exchange Act of 1934, as amended.

APPENDIX C

Returned Licensed Compounds

Portions of this Exhibit were omitted and have been filed separately with the Secretary of the Commission pursuant to Synta Pharmaceuticals Corp.'s application requesting confidential treatment under Rule 24b-2 of the Securities Exchange Act of 1934, as amended.

**SECOND AMENDMENT TO
LOAN AND SECURITY AGREEMENT**

THIS SECOND AMENDMENT TO LOAN AND SECURITY AGREEMENT (this “**Agreement**”) is dated as of March 3, 2011, by and among **SYNTA PHARMACEUTICALS CORP.**, a Delaware corporation (“**Borrower**”), **SYNTA SECURITIES CORP.**, a Massachusetts corporation (“**Guarantor**”); Borrower and Guarantor each a “**Loan Party**” and, collectively, the “**Loan Parties**”), **GENERAL ELECTRIC CAPITAL CORPORATION**, a Delaware corporation acting in its capacity as agent (“**Agent**”) for the lenders under the Loan Agreement (as defined below) (“**Lenders**”), and the Lenders.

W I T N E S S E T H:

WHEREAS, the Loan Parties, Lenders and Agent are parties to that certain Loan and Security Agreement, dated as of September 30, 2010 (as amended, restated, supplemented or otherwise modified from time to time, the “**Loan Agreement**”; capitalized terms used herein have the meanings given to them in the Loan Agreement except as otherwise expressly defined herein), pursuant to which Lenders have agreed to provide to Borrower certain loans and other extensions of credit in accordance with the terms and conditions thereof; and

WHEREAS, the Loan Parties, Agent and Lenders desire to amend certain provisions of the Loan Agreement in accordance with, and subject to, the terms and conditions set forth herein.

NOW, THEREFORE, in consideration of the premises, the covenants and agreements contained herein, and other good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the Loan Parties, Lenders and Agent hereby agree as follows:

1. Acknowledgment of Obligations. Borrower hereby acknowledges, confirms and agrees that all Term Loans made prior to the date hereof, together with interest accrued and accruing thereon, and fees, costs, expenses and other charges owing by Borrower to Agent and Lenders under the Loan Agreement and the other Debt Documents, are unconditionally owing by Borrower to Agent and Lenders, without offset, defense or counterclaim of any kind, nature or description whatsoever except as may be limited by applicable bankruptcy, insolvency, reorganization, moratorium or other similar laws relating to or affecting creditor’s rights generally.

2. Amendments to Loan Agreement. Subject to the terms and conditions of this Agreement, including, without limitation, the conditions to effectiveness set forth in Section 5 below, the Loan Agreement is hereby amended as follows:

(a) Section 5.7 of the Loan Agreement is amended by (a) deleting the word “and” immediately preceding clause (i) thereof and substituting a comma (“,”) in lieu thereof, (b) adding the following: “and (j) liens securing the Indebtedness permitted pursuant to Section 7.2(j), in favor of the insurance broker, insurance company or third party financier providing such Indebtedness pursuant to Section 7.2(j) and solely against those insurance policies for

which the premiums have been financed pursuant to Section 7.2(j)” and (c) deleting the reference to clause (i) in the parenthetical at the end thereof and substituting a reference to clause (j) in lieu thereof.

(b) Section 7.2 of the Loan Agreement is amended by (a) deleting the word “and” immediately preceding clause (i) thereof and substituting a comma (“,”) in lieu thereof and (b) deleting the period at the end of Section 7.2 and adding the following:

“ and (j) Indebtedness consisting of the financing by an insurance broker, an insurance company or a third party financier arranged by such insurance broker or insurance company that customarily enters into transactions of this type of annual insurance premiums relating to insurance policies issued by such insurance company or brokered by such insurance broker in an amount not to exceed the lesser of the premiums with respect to the applicable insurance policies and \$1,000,000, is booked on the balance sheet of the Loan Parties as an accrued expense which is offset by the periodic payments on such financing, is on terms and conditions customary and reasonable for such similar transactions in the marketplace (including with respect to interest rates) and, to the extent such financing is for premiums greater than or equal to \$500,000, is pursuant to documentation reasonably acceptable to Agent.”

3. **No Other Amendments.** Except for the amendments and agreements set forth and referred to in Section 2 above, the Loan Agreement and the other Debt Documents shall remain unchanged and in full force and effect. Nothing in this Agreement is intended, or shall be construed, to constitute a novation or an accord and satisfaction of any of Borrower’s or Guarantor’s Obligations or to modify, affect or impair the perfection or continuity of Agent’s security interests in, security titles to or other liens, for the benefit of itself and the Lenders, on any Collateral for the Obligations.

4. **Representations and Warranties.** To induce Agent and Lenders to enter into this Agreement, each Loan Party does hereby warrant, represent and covenant to Agent and Lenders that after giving effect to this Agreement (i) each representation or warranty of the Loan Parties set forth in the Loan Agreement is hereby restated and reaffirmed as true and correct in all material respects on and as of the date hereof as if such representation or warranty were made on and as of the date hereof (except to the extent that any such representation or warranty expressly relates to a prior specific date or period), (ii) no Default or Event of Default has occurred and is continuing as of the date hereof and (iii) each Loan Party has the power and is duly authorized to enter into, deliver and perform this Agreement and this Agreement is the legal, valid and binding obligation of each Loan Party enforceable against each Loan Party in accordance with its terms.

5. **Condition Precedent to Effectiveness of this Agreement.** This Agreement shall become effective as of the date (the “**Amendment Effective Date**”) upon which Agent shall notify Borrower in writing that Agent has received one or more counterparts of this Agreement duly executed and delivered by the Loan Parties, Agent and Lenders, in form and substance satisfactory to Agent and Lenders.

6. Release.

(a) In consideration of the agreements of Agent and Lenders contained herein and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, each Loan Party, on behalf of itself and its successors, assigns, and other legal representatives, hereby absolutely, unconditionally and irrevocably releases, remises and forever discharges Agent and each Lender and their respective successors and assigns, and their respective present and former shareholders, affiliates, subsidiaries, divisions, predecessors, directors, officers, attorneys, employees, agents and other representatives (Agent, Lenders and all such other persons being hereinafter referred to collectively as the “**Releasees**” and individually as a “**Releasee**”), of and from all demands, actions, causes of action, suits, covenants, contracts, controversies, agreements, promises, sums of money, accounts, bills, reckonings, damages and any and all other claims, counterclaims, defenses, rights of set-off, demands and liabilities whatsoever (individually, a “**Claim**” and collectively, “**Claims**”) of every name and nature, known or unknown, suspected or unsuspected, both at law and in equity, which any Loan Party or any of its respective successors, assigns, or other legal representatives may now or hereafter own, hold, have or claim to have against the Releasees or any of them for, upon, or by reason of any circumstance, action, cause or thing whatsoever which arises at any time on or prior to the Amendment Effective Date, including, without limitation, for or on account of, or in relation to, or in any way in connection with the Loan Agreement or any of the other Debt Documents or transactions thereunder or related thereto.

(b) Each Loan Party understands, acknowledges and agrees that its release set forth above may be pleaded as a full and complete defense and may be used as a basis for an injunction against any action, suit or other proceeding which may be instituted, prosecuted or attempted in breach of the provisions of such release.

(c) Each Loan Party agrees that no fact, event, circumstance, evidence or transaction which could now be asserted or which may hereafter be discovered shall affect in any manner the final, absolute and unconditional nature of the release set forth above.

7. Covenant Not To Sue. Each Loan Party, on behalf of itself and its respective successors, assigns, and other legal representatives, hereby absolutely, unconditionally and irrevocably, covenants and agrees with and in favor of each Releasee that it will not sue (at law, in equity, in any regulatory proceeding or otherwise) any Releasee on the basis of any Claim released, remised and discharged by the Loan Parties pursuant to Section 6 above. If any Loan Party or any of its respective successors, assigns or other legal representatives violates the foregoing covenant, each Loan Party, for itself and its successors, assigns and legal representatives, jointly and severally agrees to pay, in addition to such other damages as any Releasee may sustain as a result of such violation, all attorneys’ fees and costs incurred by any Releasee as a result of such violation.

8. Advice of Counsel. Each of the parties represents to each other party hereto that it has discussed this Agreement with its counsel.

9. Severability of Provisions. In case any provision of or obligation under this Agreement shall be invalid, illegal or unenforceable in any applicable jurisdiction, the validity,

legality and enforceability of the remaining provisions or obligations, or of such provision or obligation in any other jurisdiction, shall not in any way be affected or impaired thereby.

10. Counterparts. This Agreement may be executed in multiple counterparts, each of which shall be deemed to be an original and all of which when taken together shall constitute one and the same instrument.

11. GOVERNING LAW. THIS AGREEMENT SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE INTERNAL LAWS OF THE STATE OF NEW YORK APPLICABLE TO CONTRACTS MADE AND PERFORMED IN SUCH STATE WITHOUT REGARD TO THE PRINCIPLES THEREOF REGARDING CONFLICTS OF LAWS.

12. Entire Agreement. The Loan Agreement as and when amended through this Agreement embodies the entire agreement between the parties hereto relating to the subject matter thereof and supersedes all prior agreements, representations and understandings, if any, relating to the subject matter thereof.

13. No Strict Construction, Etc. The parties hereto have participated jointly in the negotiation and drafting of this Agreement. In the event an ambiguity or question of intent or interpretation arises, this Agreement shall be construed as if drafted jointly by the parties hereto and no presumption or burden of proof shall arise favoring or disfavoring any party by virtue of the authorship of any provisions of this Agreement. Time is of the essence for this Agreement.

14. Costs and Expenses. Loan Parties absolutely and unconditionally agree, jointly and severally, to pay or reimburse upon demand for all reasonable fees, costs and expenses incurred by Agent and the Lenders that are Lenders on the Closing Date in connection with the preparation, negotiation, execution and delivery of this Agreement and any other Debt Documents or other agreements prepared, negotiated, executed or delivered in connection with this Agreement or transactions contemplated hereby.

[Signature Pages Follow]

IN WITNESS WHEREOF, the parties hereto have caused this Second Amendment to Loan and Security Agreement to be duly executed and delivered as of the day and year specified at the beginning hereof.

BORROWER:

SYNTA PHARMACEUTICALS CORP.

By: /s/ Keith Ehrlich
Name: Keith Ehrlich
Title: CFO

GUARANTOR:

SYNTA SECURITIES CORP.

By: /s/ Keith Ehrlich
Name: Keith Ehrlich
Title: CFO

SYNTA PHARMACEUTICALS CORP.
SECOND AMENDMENT TO LOAN AND SECURITY AGREEMENT
SIGNATURE PAGE

AGENT AND LENDER:

GENERAL ELECTRIC CAPITAL CORPORATION

By: /s/ R. Hanes Whiteley
Name: R. Hanes Whiteley
Title: Its Duly Authorized Signatory

SYNTA PHARMACEUTICALS CORP.
SECOND AMENDMENT TO LOAN AND SECURITY AGREEMENT
SIGNATURE PAGE

LENDER:

MIDCAP FUNDING III, LLC

By: /s/ Luis Viera

Name: Luis Viera

Title: Managing Director

SYNTA PHARMACEUTICALS CORP.
SECOND AMENDMENT TO LOAN AND SECURITY AGREEMENT
SIGNATURE PAGE

CERTIFICATIONS UNDER SECTION 302

I, Safi R. Bahcall, Ph.D., certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Synta Pharmaceuticals Corp.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. 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: May 5, 2011

/s/ SAFI R. BAHCALL, PH.D.

Safi R. Bahcall, Ph.D.

President and Chief Executive Officer

(principal executive officer)

CERTIFICATIONS UNDER SECTION 302

I, Keith S. Ehrlich, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Synta Pharmaceuticals Corp.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. 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: May 5, 2011

/s/ KEITH S. EHRLICH

Keith S. Ehrlich
Vice President, Finance and Administration,
Chief Financial Officer
(principal accounting and financial officer)

CERTIFICATIONS UNDER SECTION 906

Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (subsections (a) and (b) of section 1350, chapter 63 of title 18, United States Code), each of the undersigned officers of Synta Pharmaceuticals Corp., a Delaware corporation (the "Company"), does hereby certify, to such officer's knowledge, that:

The Quarterly Report on Form 10-Q for the period ended March 31, 2011 (the "Form 10-Q") of the Company fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, and the information contained in the Form 10-Q fairly presents, in all material respects, the financial condition and results of operations of the Company.

Dated: May 5, 2011

/s/ SAFI R. BAHCALL, PH.D.

Safi R. Bahcall, Ph.D.

President and Chief Executive Officer

(principal executive officer)

Dated: May 5, 2011

/s/ KEITH S. EHRLICH

Keith S. Ehrlich

Vice President, Finance and Administration,

Chief Financial Officer

(principal accounting and financial officer)

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