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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 June 30, 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 001-32157

ADVENTRX Pharmaceuticals, Inc.

(Exact name of registrant as specified in its charter)

Delaware	**84-1318182**
(State or other jurisdiction of incorporation or organization)	*(I.R.S. Employer Identification No.)*
12390 El Camino Real, Suite 150, San Diego, CA	**92130**
(Address of principal executive offices)	**(Zip Code)**

(858) 552-0866
(Registrant's telephone number, including area code)

N/A
(Former name, former address and former fiscal year, if changed since last report)

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

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

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

Large accelerated filer ☐ Accelerated filer ☐ Non-accelerated filer ☐ Smaller reporting company ☑

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

The number of shares outstanding of the registrant's common stock, $0.001 par value per share, as of August 4, 2011 was 26,465,709.

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PART I — FINANCIAL INFORMATION

Item 1. Financial Statements

ADVENTRX Pharmaceuticals, Inc. and Subsidiaries
(A Development Stage Enterprise)
Condensed Consolidated Balance Sheets
(Unaudited)

	June 30, 2011	December 31, 2010 (1)
Assets		
Current assets:		
Cash and cash equivalents	$ 41,955,977	$ 27,978,823
Interest and other receivables	271	1,980
Prepaid expenses	776,178	428,276
Total current assets	42,732,426	28,409,079
Property and equipment, net	57,407	44,254
In-process research and development	6,549,000	—
Goodwill	403,795	—
Other assets	419,015	33,484
Total assets	$ 50,161,643	$ 28,486,817
Liabilities and Stockholders' Equity		
Current liabilities:		
Accounts payable	$ 872,488	$ 479,780
Accrued liabilities	1,080,466	864,857
Accrued compensation and payroll taxes	411,139	456,839
Total current liabilities	2,364,093	1,801,476
Contingent consideration	1,400,000	—
Stockholders' equity:		
Common stock, $0.001 par value; 500,000,000 shares authorized; 26,465,709 and 15,480,302 shares issued and outstanding at June 30, 2011 and December 31, 2010, respectively	26,466	15,480
Additional paid-in capital	209,841,368	182,798,982
Accumulated other comprehensive income	7,466	—
Deficit accumulated during the development stage	(163,477,750)	(156,129,121)
Total stockholders' equity	46,397,550	26,685,341
Total liabilities and stockholders' equity	$ 50,161,643	$ 28,486,817

(1) The balance sheet at December 31, 2010 has been derived from audited financial statements at that date. It does not include, however, all of the information and notes required by accounting principles generally accepted in the United States of America for complete financial statements.

See accompanying notes to unaudited condensed consolidated financial statements.

ADVENTRX Pharmaceuticals, Inc. and Subsidiaries
(A Development Stage Enterprise)
Condensed Consolidated Statements of Operations
(Unaudited)

	Three months ended June 30,		Six months ended June 30,		Inception (June 12, 1996) through
	2011	2010	2011	2010	June 30, 2011
Licensing revenue	$ —	$ —	$ —	$ —	$ 1,300,000
Net sales	—	—	—	—	174,830
Grant revenue	—	—	—	—	618,692
Total net revenue	—	—	—	—	2,093,522
Cost of sales	—	—	—	—	51,094
Gross margin	—	—	—	—	2,042,428
Operating expenses:					
Research and development	1,342,573	633,766	1,953,866	1,873,095	74,164,833
Selling, general and administrative	1,824,108	1,303,217	3,397,854	2,477,893	56,355,068
Transaction-related expenses	1,229,418	—	2,028,923	—	2,359,292
Depreciation and amortization	10,366	5,767	20,237	11,647	10,917,855
In-process research and development	—	—	—	—	10,422,130
Impairment loss	—	—	—	—	5,702,130
Equity in loss of investee	—	—	—	—	178,936
Total operating expenses	4,406,465	1,942,750	7,400,880	4,362,635	160,100,244
Loss from operations	(4,406,465)	(1,942,750)	(7,400,880)	(4,362,635)	(158,057,816)
Loss on fair value of warrants	—	—	—	—	(12,239,688)
Interest income	10,998	23,308	43,869	41,748	4,725,930
Interest expense	—	—	—	(1,629)	(180,719)
Other income (expense)	3,277	—	8,382	—	71,757
Loss before cumulative effect of change in accounting principle	(4,392,190)	(1,919,442)	(7,348,629)	(4,322,516)	(165,680,536)
Cumulative effect of change in accounting principle	—	—	—	—	(25,821)
Net loss	(4,392,190)	(1,919,442)	(7,348,629)	(4,322,516)	(165,706,357)
Preferred stock dividends	—	—	—	—	(621,240)
Deemed dividends on preferred stock	—	(3,124,876)	—	(5,639,796)	(10,506,683)
Net loss applicable to common stock	$ (4,392,190)	$ (5,044,318)	$ (7,348,629)	$ (9,962,312)	$ (176,834,280)
Net loss per common share — basic and diluted	$ (0.17)	$ (0.39)	$ (0.30)	$ (0.86)	
Weighted average shares — basic and diluted	26,250,259	12,886,826	24,512,515	11,522,885	

See accompanying notes to unaudited condensed consolidated financial statements.

ADVENTRX Pharmaceuticals, Inc. and Subsidiaries
(A Development Stage Enterprise)
Condensed Consolidated Statements of Cash Flows
(Unaudited)

	Six months ended June 30,		Inception (June 12, 1996) through
	2011	2010	June 30, 2011
Cash flows from operating activities:			
Net loss	$ (7,348,629)	$ (4,322,516)	$ (165,706,357)
Adjustments to reconcile net loss to net cash used in operating activities:			
Depreciation and amortization	20,237	11,647	10,467,857
(Gain) loss on disposals of fixed assets	(2,973)	—	56,812
Loss on fair value of warrants	—	—	12,239,688
(Gain) loss on change in fair value of contingent consideration	227,828	—	227,828
Expenses related to share-based compensation	208,642	451,974	9,432,584
Expense related to stock options issued to non-employees	—	—	204,664
Expenses paid by issuance of common stock	—	—	1,341,372
Expenses paid by issuance of warrants	—	—	573,357
Expenses paid by issuance of preferred stock	—	—	142,501
Expenses related to stock warrants issued	—	—	612,000
Accretion of discount on investments in securities	—	—	(1,604,494)
Amortization of debt discount	—	—	450,000
Forgiveness of employee receivable	—	—	30,036
Impairment loss — write-off of goodwill	—	—	5,702,130
Equity in loss of investee	—	—	178,936
In-process research and development	—	—	10,422,130
Write-off of license agreement	—	—	152,866
Write-off of assets available-for-sale	—	—	108,000
Cumulative effect of change in accounting principle	—	—	25,821
Changes in assets and liabilities, net of effect of acquisitions:			
(Increase) decrease in prepaid expenses and other assets	(343,971)	(293,076)	(1,055,081)
Increase (decrease) in accounts payable and accrued liabilities	261,051	(1,025,815)	2,239,235
Net cash used in operating activities	(6,977,815)	(5,177,786)	(113,758,115)
Cash flows from investing activities:			
Purchases of short-term investments	—	—	(111,183,884)
Proceeds from sales and maturities of short-term investments	—	—	112,788,378
Purchases of property and equipment	(24,538)	(6,780)	(1,083,405)
Proceeds from sale of property and equipment	12,635	—	66,920
Purchase of certificate of deposit	—	—	(1,016,330)
Maturity of certificate of deposit	—	—	1,016,330
Payment on obligation under license agreement	—	—	(106,250)
Cash acquired from acquisitions, net of cash paid	—	—	32,395
Issuance of note receivable — related party	—	—	(35,000)
Payments on note receivable	—	—	405,993
Advance to investee	—	—	(90,475)
Cash transferred in rescission of acquisition	—	—	(19,475)
Cash received in rescission of acquisition	—	—	230,000
Net cash provided by (used in) investing activities	(11,903)	(6,780)	1,005,197

	Six months ended June 30,		Inception (June 12, 1996) through
	2011	2010	June 30, 2011
Cash flows from financing activities:			
Proceeds from sale of preferred stock	—	30,453,227	44,474,720
Proceeds of restricted cash for preferred stock dividends	—	632,789	633,008
Proceeds from sale of common stock	22,507,529	—	106,658,871
Proceeds from exercise of stock options	—	—	712,367
Proceeds from sale or exercise of warrants	—	317,444	14,714,258
Payment to escrow for preferred stock dividends obligation	—	(632,789)	(633,008)
Repurchase of warrants	—	—	(55,279)
Payments for financing and offering costs	(1,548,123)	(3,093,733)	(12,542,171)
Payments on notes payable and long-term debt	—	—	(605,909)
Proceeds from issuance of notes payable and detachable warrants	—	—	1,344,718
Cash paid in lieu of fractional shares for reverse stock split	—	(146)	(146)
Net cash provided by financing activities	20,959,406	27,676,792	154,701,429
Effect of exchange rate changes on cash	7,466	—	7,466
Net increase in cash and cash equivalents	13,977,154	22,492,226	41,955,977
Cash and cash equivalents at beginning of period	27,978,823	8,667,404	—
Cash and cash equivalents at end of period	$41,955,977	$31,159,630	$ 41,955,977

See accompanying notes to unaudited condensed consolidated financial statements.

ADVENTRX Pharmaceuticals, Inc. and Subsidiaries
(A Development Stage Enterprise)
Notes to Condensed Consolidated Financial Statements (Unaudited)

1. Basis of Presentation

ADVENTRX Pharmaceuticals, Inc., a Delaware corporation ("ADVENTRX," "we," "our" or the "Company"), prepared the unaudited interim condensed consolidated financial statements included in this report in accordance with accounting principles generally accepted in the United States of America ("U.S. GAAP") for interim financial information and with the instructions of the Securities and Exchange Commission ("SEC"). Accordingly, they do not include all of the information and disclosures required by U.S. GAAP for annual audited financial statements and should be read in conjunction with our audited consolidated financial statements and related notes for the year ended December 31, 2010 included in our Annual Report on Form 10-K filed with the SEC on March 10, 2011 ("2010 Annual Report"). The condensed consolidated balance sheet as of December 31, 2010 included in this report has been derived from the audited consolidated financial statements included in the 2010 Annual Report. In the opinion of management, these consolidated financial statements include all adjustments (consisting of normal recurring adjustments) necessary for a fair presentation of the financial position, results of operations and cash flows for the periods presented. The results of operations for the interim periods shown in this report are not necessarily indicative of results expected for the full year.

The condensed consolidated financial statements include the accounts of the Company and its wholly-owned subsidiaries, SD Pharmaceuticals, Inc. and SynthRx, Inc. ("SynthRx"). All intercompany accounts and transactions have been eliminated in consolidation.

In February 2011, we entered into an agreement and plan of merger to acquire SynthRx, a privately-held Delaware corporation developing a novel, purified, rheologic and antithrombotic compound that we will develop as "ANX-188," in exchange for shares of our common stock. The transaction was completed on April 8, 2011.

On April 23, 2010, the Company effected a 1-for-25 reverse split of its common stock, which was authorized by its stockholders at a special meeting held in August 2009. All common stock share and per share information in the condensed consolidated financial statements and notes thereto included in this report have been restated to reflect retrospective application of the reverse stock split for all periods presented ending or as of a date prior to April 23, 2010, except for par value per share and the number of authorized shares, which were not affected by the reverse stock split.

2. Use of Estimates

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

3. Acquisition of SynthRx

On April 8, 2011, SynthRx, a biotechnology company developing a novel, purified, rheologic and antithrombotic compound, now referred to as ANX-188, became a wholly owned subsidiary of ADVENTRX pursuant to the terms of the Agreement and Plan of Merger, dated February 12, 2011 (the "Merger Agreement"). The acquisition is accounted for as a business combination.

As consideration for the transaction, all shares of SynthRx common stock outstanding immediately prior to the effective time of the merger were cancelled and automatically converted into the right to receive shares of ADVENTRX's common stock, in the aggregate, as follows:

(i) 862,078 shares (the "Fully Vested Shares") of ADVENTRX's common stock, which shares were issued on April 8, 2011 and represent 1,000,000 shares, less 137,922 shares that were deducted as a result of certain expenses of SynthRx, and 200,000 of which were deposited into escrow (the "Closing Escrow Amount") to indemnify ADVENTRX against breaches of representations and warranties;

(ii) up to 1,938,773 shares of ADVENTRX's common stock, which shares were issued and outstanding on April 8, 2011 (the "Subject to Vesting Shares," and together with the 862,078 Fully Vested Shares issued to the former stockholders of SynthRx and the escrow agent, the "Closing Shares"), which Subject to Vesting Shares are subject to various repurchase rights by ADVENTRX and fully vest, subject to reduction upon certain events, upon achievement of the First Milestone (defined below);

(iii) up to 1,000,000 shares of ADVENTRX's common stock (the "First Milestone Shares"), which shares will be issued, if at all, upon achievement of the First Milestone (the "First Milestone Payment"); provided, however, that in the event the First Milestone is achieved prior to the first anniversary of the closing of the merger, 20% of the First Milestone Payment shall be deposited into escrow (the "First Milestone Escrow Amount," and together with the Closing Escrow Amount, the "Escrow Amount"). The "First Milestone" means the dosing of the first patient in a phase 3 clinical study carried out pursuant to a protocol that is mutually agreed to by SynthRx and ADVENTRX; provided, however, that the number of evaluable patients planned to target statistical significance with a p value of 0.01 in the primary endpoint shall not exceed 250 (unless otherwise mutually agreed) (the "First Protocol"). In the event that the FDA indicates that a single phase 3 clinical study will not be adequate to support approval of a new drug application covering the use of ANX-188 for the treatment of sickle cell crisis in children (the "ANX-188 NDA"), "First Milestone" shall mean the dosing of the first patient in a phase 3 clinical study carried out pursuant to a protocol that (a) is mutually agreed to by SynthRx and ADVENTRX as such and (b) describes a phase 3 clinical study that the FDA has indicated may be sufficient, with the phase 3 clinical study described in the First Protocol, to support approval of the ANX-188 NDA;

(iv) 3,839,400 shares of ADVENTRX's common stock (the "Second Milestone Shares"), which shares will be issued, if at all, upon achievement of the Second Milestone (the "Second Milestone Payment"). The "Second Milestone" shall mean the acceptance for review of the ANX-188 NDA by the FDA; and

(v) 8,638,650 shares of ADVENTRX's common stock (the "Third Milestone Shares," and together with the First Milestone Shares and the Second Milestone Shares, the "Milestone Shares"), which shares will be issued, if at all, upon achievement of the Third Milestone (the "Third Milestone Payment," and together with the First Milestone Payment and the Second Milestone Payment, the "Milestone Payments"). The "Third Milestone" shall mean the approval by the FDA of the ANX-188 NDA.

The Subject to Vesting Shares were issued on April 8, 2011 and classified as equity. However, the Subject to Vesting shares are subject to various repurchase rights by ADVENTRX. The fair value related to the number of such shares that may be repurchased was accounted for as a contingent asset. The fair value of the contingent asset will be remeasured at each reporting date until the arrangement is settled.

The Milestone Payments constitute contingent consideration because our obligation to make the Milestone Payments is contingent on future events. In order to determine the appropriate classification of the contingent consideration as a liability or equity, ADVENTRX reviewed ASC 815-40 "Derivatives and Hedging — Contracts in Entity's Own Equity". ASC 815-40 requires that contingent consideration arrangements that include potential net cash settlements or variable provisions should be classified as a liability. Classification as a liability requires fair value measurement initially and subsequently at each reporting date. Changes in the fair value of contingent consideration are recognized in earnings until the contingent consideration arrangement is settled. Classification as equity requires fair value measurement initially and there are no subsequent re-measurements. Settlement of equity-classified contingent consideration is accounted for within equity.

The fair value of the contingent consideration for the First Milestone was recorded as a liability as there is variability with respect to the number of shares that ultimately may be issued based on the timing of and the number of patients enrolled in the phase 3 clinical study of ANX-188. The fair value of the contingent consideration for the First Milestone will be remeasured at each reporting date until the arrangement is settled. The fair values of the contingent consideration for the Second Milestone and the Third Milestone were recorded as equity as there are no net cash settlement or variable provisions.

The remeasurement of the fair values for the contingent asset and liability at June 30, 2011 resulted in a net $0.2 million charge to transaction-related expenses for the quarter ended June 30, 2011.

Based on the fair value of the Closing Shares and the Milestone Payments (which is based upon the number of shares to be issued at the time of achievement of each milestone, the probability that such milestone will be achieved, the estimated date of achievement for each milestone and the estimated market price of a share of common stock of ADVENTRX on the estimated date of achievement of such milestone), the preliminary aggregate purchase price was approximately $6.7 million.

The preliminary estimated total purchase price of the acquisition is as follows:

Milestone	Shares Issued / To Be Issued	Probability Weighted Fair Value
Initial consideration (fully vested)	862,078	$ 2,017,263
Initial consideration that vests upon achievement of First Milestone (Subject to Vesting shares)	1,938,773	2,103,375
First Milestone — phase 3 clinical study first dosing	1,000,000	1,084,900
Second Milestone — NDA acceptance	3,839,400	733,403
Third Milestone — FDA approval	8,638,650	730,801
Total	16,278,901	$ 6,669,742

Under the acquisition method of accounting, the total preliminary estimated purchase price is allocated to SynthRx's net tangible and intangible assets and liabilities based on their estimated fair values on April 8, 2011, the date we completed the acquisition of SynthRx. The following table summarizes the preliminary estimated allocation of the purchase price for SynthRx:

Net tangible assets acquired	$ 18,513
Net tangible liabilities assumed	(301,566)
Acquired intangibles:	
In-process research and development	6,549,000
Goodwill	403,795
Total preliminary estimated purchase price	$ 6,669,742

A value of $0.4 million, representing the difference between the total preliminary estimated purchase price and the aggregate fair values assigned to the tangible and intangible assets acquired, less liabilities assumed, was assigned to goodwill. ADVENTRX acquired SynthRx to expand its product pipeline, enter into new therapeutic areas and address unmet market needs. These are among the factors that contributed to a purchase price for the SynthRx acquisition that resulted in the recognition of goodwill.

The following unaudited pro forma information presents the consolidated results of operations of ADVENTRX and SynthRx as if the acquisition had occurred on January 1, 2010:

	Three months ended June 30,		Six months ended June 30,	
	2011	2010	2011	2010
Revenues	$ —	$ —	$ —	$ —
Loss from operations	(3,452,757)	(1,980,437)	(6,123,270)	(4,426,126)
Net loss applicable to common stock	(3,438,472)	(5,081,960)	(6,070,993)	(10,025,713)
Net loss per share, basic and diluted	$ (0.13)	$ (0.32)	$ (0.23)	$ (0.70)

The pro forma information is not necessarily indicative of what the results of operations actually would have been had the acquisition been completed on the date indicated. In addition, it does not purport to project the future operating results of the combined entity. The pro forma condensed combined financial information is presented for illustrative purposes only.

4. Fair Value of Financial Instruments

Cash and cash equivalents, accounts payable and accrued liabilities are presented in the financial statements at their carrying amounts, which are reasonable estimates of fair value due to their short maturities.

The fair value of financial assets and liabilities is measured under a framework that establishes "levels" which are defined as follows: Level 1 fair value is determined from observable, quoted prices in active markets for identical assets or liabilities. Level 2 fair value is determined from quoted prices for similar items in active markets or quoted prices for identical or similar items in markets that are not active. Level 3 fair value is determined using the entity's own assumptions about the inputs that market participants would use in pricing an asset or liability.

The fair value of our contingent asset and contingent consideration related to the SynthRx acquisition (effective April 8, 2011) at June 30, 2011 is summarized in the following table:

	June 30, 2011			
	Total Fair Value	Fair Value Determined Under:		
		(Level 1)	(Level 2)	(Level 3)
Contingent asset	$ 387,753	$ —	$ —	$ 387,753
Contingent consideration	$ (1,400,000)	$ —	$ —	$ (1,400,000)

5. Share-Based Compensation Expense

Estimated share-based compensation expense related to equity awards granted to our employees and non-employee directors for the three and six months ended June 30, 2011 and 2010 was as follows:

	Three months ended June 30,		Six months ended June 30,	
	2011	2010	2011	2010
Selling, general and administrative expense	$ 133,069	$ 227,751	$ 270,245	$ 456,288
Research and development expense	(59,745)	(1,267)	(61,603)	(4,314)
Share-based compensation expense before taxes	73,324	226,484	208,642	451,974
Related income tax benefits	—	—	—	—
Share-based compensation expense	$ 73,324	$ 226,484	$ 208,642	$ 451,974
Net share-based compensation expense per common share — basic and diluted	$ 0.00	$ 0.02	$ 0.01	$ 0.04

There were no employee or non-employee director stock options exercised during the three and six months ended June 30, 2011 and 2010. During the three and six months ended June 30, 2011, we granted stock options to acquire an aggregate of 168,805 and 413,459 shares, respectively, of our common stock to our employees and non-employee directors with an estimated weighted-average grant date fair value of $2.30 and $2.27 per share, respectively. During the three and six months ended June 30, 2010, we granted stock options to acquire an aggregate of 20,000 and 203,381 shares, respectively, of our common stock to our employees and non-employee directors with an estimated weighted-average grant date fair value of $1.60 and $6.91 per share, respectively. At June 30, 2011, total unrecognized estimated compensation cost related to non-vested employee and non-employee director share-based awards granted prior to that date was $1.5 million, which is expected to be recognized over a weighted-average period of 2.73 years.

6. 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, including foreign currency translation adjustments and unrealized gains and losses on marketable securities. Our components of comprehensive loss consist of net loss and foreign currency translation adjustments. For the six months ended June 30, 2011 and 2010, comprehensive loss was $7.3 million and $4.4 million, respectively.

7. Net Loss Per Common Share

Basic and diluted net loss per common share was calculated by dividing the net loss applicable to common stock for the period by the weighted-average number of common shares outstanding during the period, without consideration for our outstanding common stock equivalents because their effect would have been anti-dilutive. Common stock equivalents are included in the calculation of diluted earnings per common share only if their effect is dilutive. As of June 30, 2011 and 2010, our outstanding common stock equivalents consisted of options, warrants and convertible preferred stock as follows:

	June 30,	
	2011	2010
Options	809,525	433,737
Warrants	7,777,988	4,055,030
Convertible preferred stock	—	779,092
	8,587,513	5,267,859

8. Recent Accounting Pronouncements

In December 2010, the FASB issued ASU No. 2010-29 Business Combinations (Topic 805): Disclosure of Supplementary Pro Forma Information for Business Combinations ("ASU 2010-29"). ASU 2010-29 specifies that if a public entity presents comparative financial statements, the entity should disclose revenue and earnings of the combined entity as though the business combination(s) that occurred during the current year had occurred as of the beginning of the comparable prior annual reporting period only. The amendments in ASU 2010-29 also expand the supplemental pro forma disclosures under Topic 805 to include a description of the nature and amount of material, nonrecurring pro forma adjustments directly attributable to the business combination included in the reported pro forma revenue and earnings. The amended guidance is effective prospectively for business combinations for which the acquisition date is on or after the beginning of the first annual reporting period beginning on or after December 15, 2010. We have accounted for our acquisition of SynthRx in April 2011 in accordance with this guidance.

In May 2011, the FASB issued ASU No. 2011-4, Fair Value Measurement (Topic 820) — Amendments to Achieve Common Fair Value Measurement and Disclosure Requirements in U.S. GAAP and IFRSs ("ASU 2011-4"). ASU 2011-4 represents the converged guidance of the FASB and the International Accounting Standards Board on fair value measurement. The guidance clarifies how a principal market is determined, addresses the fair value measurement of instruments with offsetting market or counterparty credit risks, addresses the concept of valuation premise and highest and best use, extends the prohibition on blockage factors to all three levels of the fair value hierarchy and requires additional disclosures. ASU 2011-4 is effective for interim and annual periods beginning after December 15, 2011 and is applied prospectively. We are currently evaluating the requirements of ASU 2011-4 and have not yet determined its impact on our financial statements.

In June 2011, the FASB issued ASU No. 2011-5, Presentation of Comprehensive Income ("ASU 2011-5"). The issuance of ASU 2011-5 is intended to improve the comparability, consistency and transparency of financial reporting and to increase the prominence of items reported in other comprehensive income. The guidance in ASU 2011-5 supersedes the presentation options in ASC Topic 220 and facilitates convergence of U.S. GAAP and IFRS by eliminating the option to present components of other comprehensive income as part of the statement of changes in stockholders' equity and requiring that all non-owner changes in stockholders' equity be presented either in a single continuous statement of comprehensive income or in two separate but consecutive statements. ASU 2011-5 is effective for interim periods and years beginning after December 15, 2011.

9. Grant Revenue

In November 2010, the Internal Revenue Service notified us that an aggregate amount of $488,959 in grants had been awarded to us under the qualifying therapeutic discovery project ("QTDP") program established under Section 48D of the Internal Revenue Code as a result of the Patient Protection and Affordable Care Act of 2010. We submitted applications in July 2010 for qualified investments we made, or expected to make, in 2009 and 2010 in our ANX-530, or Exelbine™, and ANX-514 programs, and a grant in the amount of $244,479 was approved for each of those programs. These grants are not taxable for federal income tax purposes. We received full payment of the grants in November 2010, all of which we recognized as revenue in the three month period ended December 31, 2010 because the criteria under our revenue recognition policy were met in that period.

10. Supplementary Cash Flow Information

Noncash investing and financing transactions presented separately from the condensed consolidated statements of cash flows for the six months ended June 30, 2011 and 2010 and for the period from inception (June 12, 1996) through June 30, 2011 are as follows:

	Six months ended June 30,		Inception (June 12, 1996) through
	2011	2010	June 30, 2011
Supplemental disclosures of cash flow information			
Interest paid	$ —	$ 1,629	$ 180,719
Supplemental disclosures of non-cash investing and financing activities:			
Issuance of warrants, common stock and preferred stock for:			
Conversion of notes payable and accrued interest	—	—	1,213,988
Prepaid services to consultants	—	—	1,482,781
Conversion of preferred stock	—	54,260	13,674
Acquisitions	5,885,323	—	30,666,878
Payment of dividends	—	—	213,000
Financial advisor services in connection with private placements	1,061,910	724,286	3,615,464
Acquisition of treasury stock in settlement of a claim	—	—	34,747
Cancellation of treasury stock	—	—	(34,747)
Assumptions of liabilities in acquisitions	301,566	—	1,537,473
Fair value of contingent liabilities, net of contingent assets, recorded due to acquisition	784,419	—	784,419
Acquisition of license agreement for long-term debt	—	—	161,180
Cashless exercise of warrants	—	—	4,312
Dividends accrued	—	—	621,040
Trade asset converted to available-for-sale asset	—	—	108,000
Dividends extinguished	—	—	408,240
Trade payable converted to note payable	—	—	83,948
Issuance of warrants for return of common stock	—	—	50,852
Detachable warrants issued with notes payable	—	—	450,000
Cumulative preferred stock dividends	—	7,131,114	13,502,403

11. Stockholders' Equity

Common Stock Financing

In January 2011, we completed a registered direct equity financing involving the issuance of units consisting of 8,184,556 shares of our common stock, 5-year warrants to purchase up to an aggregate of 2,046,139 shares of our common stock and 1-year warrants to purchase up to an aggregate of 2,046,139 shares of our common stock. The gross proceeds of this financing were $22.5 million, and we received $21.0 million in net proceeds after deducting the fees and expenses of our placement agent and our other offering expenses. We may receive up to $11.3 million of additional proceeds from the exercise of the warrants issued in this financing. Those warrants have an exercise price of $2.75 per share. The 5-year warrants are exercisable any time on or before January 11, 2016 and the 1-year warrants are exercisable any time on or before January 19, 2012, subject to certain beneficial ownership limitations.

Warrants

During January 2011, we issued warrants to the investors in our registered direct equity financing and to the placement agent for that financing. See details of the equity financing above.

At June 30, 2011, outstanding warrants to purchase shares of common stock are as follows:

Warrants		Exercise Price	Expiration Date
432,429	$	56.5000	July 2012
36,071	$	3.7500	June 2014
19,007	$	4.4750	July 2014
14,183	$	4.0625	August 2014
216,000	$	3.6700	October 2014
144,000	$	5.8750	October 2014
498,488	$	8.7475	July 2012
99,696	$	11.9125	June 2014
1,816,608	$	3.6500	May 2015
2,046,139	$	2.7500	January 2012
2,046,139	$	2.7500	January 2016
409,228	$	3.4400	April 2015
7,777,988			

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

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with the condensed consolidated financial statements and related notes appearing elsewhere in this report. In addition to historical information, this discussion and analysis contains forward-looking statements that involve risks, uncertainties, and assumptions. Our actual results may differ materially from those anticipated in these forward-looking statements as a result of certain factors, including but not limited to those identified under "Forward Looking Statements" below and those discussed under the section entitled "Risk Factors," in Item 1A of Part I of our annual report on Form 10-K for the year ended December 31, 2010.

Overview

We are a specialty pharmaceutical company focused on acquiring, developing and commercializing proprietary product candidates. Two of our lead product candidates, Exelbine™, or ANX-530 (vinorelbine injectable emulsion) and ANX-514 (docetaxel emulsion for injection), are novel emulsion formulations of currently marketed chemotherapy drugs. Our other lead product candidate, ANX-188, is a novel, purified, rheologic and antithrombotic compound, which we initially are developing as a first-in-class treatment for pediatric patients with sickle cell disease in acute crisis.

We have devoted substantially all of our resources to research and development, or R&D, or to acquisition of our product candidates. We have not yet marketed or sold any products or generated any significant revenue and have incurred significant losses since inception. We had a loss from operations of $4.4 million for the quarter ended June 30, 2011 and cash of approximately $42.0 million at June 30, 2011.

In November 2010, we submitted a new drug application, or NDA, for Exelbine to the U.S. Food and Drug Administration, or FDA, and in January 2011, we announced that the FDA accepted the Exelbine NDA for filing and established a Prescription Drug User Fee Act, or PDUFA, goal date of September 1, 2011 to finish its review of the Exelbine NDA.

In February 2011, we met with the FDA to discuss ANX-514 and the data package we presented to the FDA to support approval of ANX-514 based on data from our bioequivalence study of ANX-514. The FDA indicated that a randomized safety study comparing ANX-514 and Taxotere®, a branded formulation of docetaxel, would be required to support approval of ANX-514. The study would be primarily descriptive but with a sample size sufficient to demonstrate a comparable safety profile. The FDA recommended that the study also collect data on response rate and duration of response. We are developing a study protocol for and intend to continue discussions with the FDA regarding a single, additional study in which we compare the safety profiles of ANX-514, without routine administration of corticosteroid premedication, and Taxotere, with routine administration of corticosteroid premedication. We believe this single study will provide sufficient clinical data to support an ANX-514 NDA, should the study demonstrate comparable safety profiles between ANX-514 and Taxotere.

In April 2011, we completed our acquisition of SynthRx, Inc., a privately-held company, pursuant to the Agreement and Plan of Merger, dated February 12, 2011, by and among us, SRX Acquisition Corporation, a wholly owned subsidiary of ours, SynthRx and an individual who was a principal stockholder of SynthRx, and SynthRx became a wholly owned subsidiary of ours. SynthRx's lead product candidate is a novel, purified, rheologic and antithrombotic compound that we are developing as ANX-188. In connection with the completion of the acquisition, we issued 2,800,851 shares of our common stock to the former SynthRx stockholders, 1,938,773 of which are subject to repurchase by us in the event development of ANX-188 does not achieve the First Milestone, as described below, and 200,000 of which are subject to escrow to indemnify us against breaches of representations and warranties in the merger agreement, and we assumed $0.3 million of SynthRx's transaction expenses, some of which are subject to dispute. We could issue up to an aggregate of 13,478,050 additional shares of our common stock to the former SynthRx stockholders if the development of ANX-188 achieves certain milestones, as described below. Of the shares issuable in connection with achievement of milestones, up to 1,000,000 shares would be issuable upon the dosing of the first patient in a phase 3 clinical study that the FDA has indicated may be sufficient to support approval of a new drug application covering the use of ANX-188 for the treatment of sickle cell crisis in children, or the ANX-188 NDA, which we refer to as the First Milestone; 3,839,400 shares would be issuable upon acceptance for review of the ANX-188 NDA by the FDA, which we refer to as the Second Milestone; and 8,638,650 shares would be issuable upon approval by the FDA of the ANX-188 NDA, which we refer to as the Third Milestone.

We anticipate that our cash as of June 30, 2011 will be sufficient to fund our currently planned level of operations for at least the next 12 months. However, we may pursue development and/or commercialization activities for our current or future product candidates, at levels or on timelines, or we may incur unexpected expenses, that shorten the period through which our operating funds will sustain us. We may also acquire new technologies, product candidates and/or products and the cost to acquire, develop and/or commercialize such new technologies, product candidates and/or products may shorten the period through which our operating funds will sustain us. In addition, we may seek to raise substantial additional capital to support activities that we believe will enhance the value of our programs and increase stockholder value. We may not be able to obtain additional financing on a timely basis or on acceptable terms, if at all.

The FDA has accepted our proposed proprietary name, "Exelbine," for ANX-530. The FDA's acceptance of our Exelbine brand name is conditioned upon its review of the Exelbine NDA and its confirmation of the information in the NDA regarding the safety of interchanging Exelbine with other vinorelbine injectable products. We are developing commercial names for our other product candidates. All trademarks, service marks or trade names appearing in this report, including but not limited to Navelbine® and Taxotere®, are the property of their respective owners. Use or display by us of other parties' trademarks, service marks, trade names, trade dress or products is not intended to and does not imply a relationship with, or endorsements or sponsorship of, us by the trademark, service mark, trade name, trade dress or product owners.

Recent Financing

In January 2011, we completed a registered direct equity financing raising gross proceeds of $22.5 million involving the issuance and sale of units consisting of 8,184,556 shares of our common stock, 5-year warrants to purchase up to an aggregate of 2,046,139 shares of our common stock and 1-year warrants to purchase up to an aggregate of 2,046,139 shares of our common stock. We received approximately $21.0 million in net proceeds after deducting the fees and expenses of our placement agent and our other offering expenses. We may receive up to $11.3 million of additional proceeds from the exercise of the warrants issued in this financing. Those warrants have an exercise price of $2.75 per share. The 5-year warrants are exercisable any time on or before January 11, 2016 and the 1-year warrants are exercisable any time on or before January 19, 2012, subject to certain beneficial ownership limitations.

Critical Accounting Policies and Estimates

Our discussion and analysis of our financial condition and results of operations is based upon consolidated financial statements and condensed consolidated financial statements that we have prepared in accordance with accounting principles generally accepted in the U.S. The preparation of these consolidated financial statements requires management to make a number of assumptions and estimates that affect the reported amounts of assets, liabilities, revenues and expenses in the condensed consolidated financial statements and accompanying notes included in this report. On an on-going basis, we evaluate these estimates and assumptions, including those related to recognition of expenses in service contracts, license agreements and share-based compensation. Management bases its estimates on historical information and assumptions believed to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions.

Revenue Recognition. We may enter into revenue arrangements that contain multiple deliverables. In these cases, revenue is recognized when all of the following criteria are met: (1) persuasive evidence of an arrangement exists; (2) delivery has occurred or services have been rendered; (3) the seller's price to the buyer is fixed and determinable; and (4) collectability is reasonably assured.

Revenue from licensing agreements is recognized based on the performance requirements of the agreement. Revenue is deferred for fees received before earned. Nonrefundable upfront fees that are not contingent on any future performance by us are recognized as revenue when the license term commences and the revenue recognition criteria are met. Nonrefundable upfront fees, where we have ongoing involvement or performance obligations, are recorded as deferred revenue and recognized as revenue over the life of the contract, the period of the performance obligation or the development period, whichever is appropriate in light of the circumstances.

Payments related to substantive, performance-based milestones in an agreement are recognized as revenue upon the achievement of the milestones as specified in the underlying agreement when they represent the culmination of the earnings process. Royalty revenue from licensed products will be recognized when earned in accordance with the terms of the applicable license agreements.

We recognize revenues from federal government research grants during the period in which we receive the grant funds, or their collection is reasonably assured, and we incur the qualified expenditures.

R&D Expenses. R&D expenses consist of expenses incurred in performing R&D activities, including salaries and benefits, facilities and other overhead expenses, bioequivalence and clinical trials, research-related manufacturing services, contract services and other outside expenses. R&D expenses are charged to operations as the underlying work is performed. Advance payments, including nonrefundable amounts, for goods or services that will be used or rendered for future R&D activities are deferred and capitalized. Such amounts will be recognized as an expense as the related goods are delivered or the related services are performed. If the goods will not be delivered, or services will not be rendered, then the capitalized advance payment is charged to expense.

Milestone payments that we make in connection with in-licensed technology or product candidates are expensed as incurred when there is uncertainty in receiving future economic benefits from the licensed technology or product candidates. We consider the future economic benefits from the licensed technology or product candidates to be uncertain until such licensed technology is incorporated into products that, or such product candidates, are approved for marketing by the FDA or when other significant risk factors are abated. For accounting purposes, management has viewed future economic benefits for all of our licensed technology or product candidates to be uncertain.

Payments in connection with our bioequivalence and clinical trials are often made under contracts with multiple contract research organizations that conduct and manage these trials on our behalf. The financial terms of these agreements are subject to negotiation and vary from contract to contract and may result in uneven payment flows. Generally, these agreements set forth the scope of work to be performed at a fixed fee or unit price or on a time-and-material basis. Payments under these contracts depend on factors such as the successful enrollment or treatment of patients or the completion of other milestones. Expenses related to bioequivalence and clinical trials are accrued based on our estimates and/or representations from service providers regarding work performed, including actual level of patient enrollment, completion of patient studies, and trial progress. Other incidental costs related to patient enrollment or treatment are accrued when reasonably certain. If the contracted amounts are modified (for instance, as a result of changes in the bioequivalence or clinical trial protocol or scope of work to be performed), we modify our accruals accordingly on a prospective basis. Revisions in scope of contract are charged to expense in the period in which the facts that give rise to the revision become reasonably certain. Because of the uncertainty of possible future changes to the scope of work in bioequivalence and clinical trials contracts, we are unable to quantify an estimate of the reasonably likely effect of any such changes on our consolidated results of operations or financial position. Historically, we have had no material changes in our bioequivalence and clinical trial expense accruals that would have had a material impact on our consolidated results of operations or financial position.

Transaction-Related Expenses. Transaction-related expenses consist of legal, accounting, financial and business development advisory fees associated with the evaluation of potential acquisition targets, including SynthRx. Transaction-related expenses also includes any changes in the fair value of contingent consideration associated with the acquisition of SynthRx.

Goodwill. Goodwill is the excess of purchase price of an acquired business over the amounts assigned to assets acquired and liabilities assumed in a business combination. In accordance with U.S. GAAP, goodwill is not amortized. Goodwill is tested for impairment annually or whenever an event occurs or circumstances change that would indicate the carrying amount may be impaired. The Company completes its annual goodwill impairment test in the fourth quarter of each year.

Intangible Assets. Intangible assets include in-process research and development (IPR&D) related to the acquisition of SynthRx and ANX-188. Under the guidance of Accounting Standards Codification, or ASC, 805, “Business Combinations”, the fair value of in-process research and development is capitalized on the balance sheet until the project is either abandoned and written off or successfully commercialized, at which time the company begins amortizing the fair value over the estimated useful life.

In accordance with previous accounting guidance effective through December 31, 2008, we accounted for the costs associated with any purchased IPR&D as an expense on the statement of operations upon acquisition. These amounts represented an estimate of the fair value of purchased IPR&D for projects that, as of the acquisition date, had not yet reached technological feasibility, had no alternative future use, and had uncertainty in generating future economic benefits. We determined the future economic benefits from the purchased IPR&D to be uncertain until such technology is incorporated into products approved for marketing by the FDA or when other significant risk factors are abated.

Share-based Compensation Expenses. We account for share-based compensation awards granted to employees, including non-employee members of our board of directors, in accordance with ASC 718, “Compensation — Stock Compensation.” Share-based compensation expense is measured at the grant date, based on the estimated fair value of the award, and is recognized as expense over the employee’s requisite service period. As share-based compensation expense is based on awards ultimately expected to vest, it has been reduced for estimated forfeitures. ASC 718 requires forfeitures to be estimated at the time of grant and revised, if necessary, in subsequent periods if actual forfeitures differ from those estimates. Forfeitures are estimated based on historical experience. Our estimated forfeiture rates may differ from actual forfeiture rates which would affect the amount of expense recognized during the period. Estimated forfeiture rates are adjusted to actual amounts as they become known.

We estimate the fair value of stock option awards on the date of grant using the Black-Scholes option-pricing model, or Black-Scholes model. The determination of the fair value of share-based payment awards on the date of grant using an option-pricing model is affected by the price of our common stock as well as assumptions regarding a number of complex and subjective variables. These variables include, but are not limited to, our expected share price volatility over the term of the awards, actual and projected employee stock option exercise behaviors, a risk-free interest rate and expected dividends. Our future volatility may differ from our estimated volatility at the grant date.

We account for share-based compensation awards granted to non-employees by determining the fair value of the share-based compensation awards granted as either the fair value of the consideration received or the fair value of the equity instruments issued, whichever is more reliably measurable. If the fair value of the equity instruments issued is used, it is measured using the share price and other measurement assumptions as of the earlier of (1) the date at which a commitment for performance by the counterparty to earn the equity instruments is reached or (2) the date at which the counterparty's performance is complete.

Income Taxes. We account for income taxes and the related accounts under the liability method in accordance with ASC 740, "Income Taxes." Deferred tax assets and liabilities are determined based on the differences between the financial statement carrying amounts and the income tax bases of assets and liabilities. A valuation allowance is applied against any net deferred tax asset if, based on available evidence, it is more likely than not that some or all of the deferred tax assets will not be realized.

The tax effects from an uncertain tax position can be recognized in our consolidated financial statements only if the position is more likely than not of being sustained upon an examination by tax authorities. An uncertain income tax position will not be recognized if it has less than a 50% likelihood of being sustained.

The foregoing is not intended to be a comprehensive list of all of our accounting policies. In most cases, the accounting treatment of a particular transaction is specifically dictated by accounting principles generally accepted in the U.S.

Results of Operations

A general understanding of the drug development process is critical to understanding our results of operations. Drug development in the U.S. and most countries throughout the world is a process that includes several steps defined by the FDA and similar regulatory authorities in foreign countries. The FDA approval processes relating to new drug products differ depending on the nature of the particular product candidate for which approval is sought. With respect to any product candidate with active ingredients not previously approved by the FDA, a prospective drug product manufacturer is required to submit an NDA that includes complete reports of pre-clinical, clinical and laboratory studies and extensive manufacturing information to demonstrate such product's safety and effectiveness. The NDA process generally requires, before the submission of the NDA, filing of an investigational new drug application, or IND, pursuant to which permission is sought to begin clinical testing of the new product candidate. An NDA based on published safety and effectiveness studies conducted by others, or previous findings of safety and effectiveness by the FDA, may be submitted under Section 505(b)(2) of the Federal Food, Drug and Cosmetic Act, or the FDCA.

Generally, with respect to any product candidate with active ingredients not previously approved by the FDA, an NDA must be supported by data from at least phase 1, phase 2 and phase 3 clinical trials. Phase 1 clinical trials can be expected to last from 6 to 18 months, phase 2 clinical trials can be expected to last from 12 to 24 months and phase 3 clinical trials can be expected to last from 18 to 36 months. However, clinical development timelines vary widely, as do the total costs of clinical trials and the likelihood of success. We anticipate that we will make determinations as to which of our R&D programs to pursue and how much funding to direct to each R&D program on an ongoing basis in response to the scientific, nonclinical and clinical success of the underlying product candidate, our ongoing assessment of its market potential and our available resources.

Future expenditures on R&D programs are subject to many uncertainties, including whether we will further develop our product candidates with a partner or independently. At this time, due to such uncertainties and the risks inherent in drug product development and the associated regulatory process, we cannot estimate with reasonable certainty the duration of or costs to complete our R&D programs or whether or when or to what extent revenues will be generated from the commercialization and sale of any of our product candidates. The duration and costs of our R&D programs, in particular those associated with clinical and bioequivalence trials and research-related manufacturing, can vary significantly among programs as a result of a variety of factors, including:

- the number of trials necessary to demonstrate the safety and efficacy of a product candidate;
- the number of patients who participate in the trials;
- the number and location of sites included in trials and the rate of site approval for the trial;
- the rates of patient recruitment and enrollment;
- the ratio of randomized to evaluable patients;
- the time and cost of process development activities related to our product candidates;
- the costs of manufacturing our product candidates;
- with respect to bioequivalence or comparative trials, the availability and cost of reference or control product in the jurisdiction of each site;

- the duration of patient treatment and follow-up;
- the time and cost of stability studies, including the need to identify critical parameters, methods to evaluate and test these parameters and validation of such methods and tests; and
- the costs, requirements, timing of and the ability to secure regulatory approvals.

The difficult process of seeking regulatory approvals for our product candidates, in particular any containing new chemical entities, and compliance with applicable regulations requires the expenditure of substantial resources. Any failure by us to obtain, or any delay in obtaining, regulatory approvals could cause our R&D expenditures to increase and, in turn, have a material and unfavorable effect on our results of operations. We cannot be certain when, if ever, we will generate revenues from sales of any of our product candidates.

While many of our R&D expenses are transacted in U.S. dollars, certain significant expenses are required to be paid in foreign currencies and expose us to transaction gains and losses that could result from changes in foreign currency exchange rates. In particular, our current contract manufacturer, which is also our intended commercial manufacturer, for Exelbine is located outside the U.S. and generally we pay for its services in Euros. As a result, our exposure to currency risk likely will increase as we move Exelbine towards commercialization and increase the services we request from this manufacturer. We include realized gains and losses from foreign currency transactions in operations as incurred.

We operate our business and evaluate our company on the basis of a single reportable segment, which is the business of acquiring, developing and commercializing proprietary product candidates.

Comparison of Three Months Ended June 30, 2011 and 2010

Revenue. We recognized no revenue for the three months ended June 30, 2011 and 2010.

We have not generated any revenue from product sales to date, and we do not expect to generate revenue from product sales until such time, if any, that we have obtained approval from a regulatory agency to sell one or more of our product candidates, which we cannot predict will occur.

R&D Expenses. We maintain and evaluate our R&D expenses by the type of cost incurred rather than by project. We maintain and evaluate R&D expenses by type primarily because we outsource a substantial portion of our work and our R&D personnel and consultants work across multiple programs rather than dedicating their time to one particular program. We began maintaining such expenses by type on January 1, 2005. The following table summarizes our consolidated R&D expenses by type for each of the periods listed:

	Three months ended June 30,		January 1, 2005 through June 30,
	2011	2010	2011
External bioequivalence and clinical trial fees and expenses	$ 232,859	$ 18,338	$ 24,341,154
External nonclinical study fees and expenses (1)	1,017,404	558,175	28,725,684
Personnel costs	152,055	58,520	10,765,360
Share-based compensation expense	(59,745)	(1,267)	2,858,382
Total	$ 1,342,573	$ 633,766	$ 66,690,580

(1) External nonclinical study fees and expenses include preclinical, research-related manufacturing, quality assurance and regulatory expenses.

R&D expenses increased by $0.7 million, or approximately 111.8%, to $1.3 million for the three months ended June 30, 2011, compared to $0.6 million for the same period in 2010. The increase in R&D expenses for the three months ended June 30, 2011 compared to the same period in 2010 was due primarily to a $0.5 million increase in external nonclinical study fees and expenses, a $0.2 million increase in external bioequivalence and clinical trial fees and expenses and a $0.1 million increase in personnel costs, offset by a $0.1 million decrease in share-based compensation expense. The increase in external nonclinical study fees and expenses is primarily related to a $0.5 million increase in research related manufacturing expenses for Exelbine. The increase in external bioequivalence and clinical trial fees and expenses is primarily related to increased clinical trial work of $0.1 million for Exelbine and clinical consulting expenses of $0.1 million for ANX-188. The decrease in share-based compensation expense is related to a true up of prior expense based on an updated forfeiture analysis.

We expect R&D expenses to increase in 2011 relative to 2010 to support development of ANX-514 and ANX-188 and any other technologies and/or product candidates we may acquire, including the potential addition of new clinical, regulatory and manufacturing personnel.

Selling, General and Administrative Expenses. Selling, general and administrative, or SG&A, expenses increased by $0.5 million, or approximately 40.0%, to $1.8 million for the three months ended June 30, 2011, compared to $1.3 million for the same period in 2010. This increase resulted primarily from a $0.2 million increase in personnel costs, mainly due to an accrual for estimated bonus expense related to 2011 performance, and a $0.3 million increase in commercial-readiness activities for Exelbine.

We expect SG&A expenses to increase in 2011 relative to 2010 as we prepare for the commercial launch of Exelbine and, should it be approved, as we launch Exelbine, and any other products we may acquire, including the potential addition of sales and marketing personnel, and to support development of ANX-514 and ANX-188 and any other technologies, product candidates and/or products we may acquire.

Transaction-Related Expenses. Transaction-related expenses were $1.2 million for the three months ended June 30, 2011, compared to $0 for the same period in 2010. Transaction-related expenses for the three months ended June 30, 2011 consisted of $1.0 million related to legal, accounting, financial and business development advisory fees associated with the evaluation of potential acquisition targets, including SynthRx, and $0.2 million related to changes in the fair value of contingent consideration related to the SynthRx acquisition.

Interest and Other Income. Interest income amounted to $10,998 for the three months ended June 30, 2011, compared to $23,308 for the same period in 2010. The decrease in interest income for the three months ended June 30, 2011 was attributable primarily to lower interest rates on invested balances in 2011 as compared to 2010. Even though we raised additional capital through our registered direct equity financings in 2009 through January 2011, we expect that interest income will continue to be low due to negligible interest rates.

Net Loss Applicable to Common Stock. Net loss applicable to common stock was $4.4 million, or $0.17 per share, for the three months ended June 30, 2011, compared to net loss applicable to common stock of $5.0 million, or $0.39 per share, for the same period in 2010. Included in net loss applicable to common stock for the three months ended June 30, 2010 was non-cash deemed dividend expense of $3.1 million related to our May 2010 registered direct equity financing.

Comparison of Six Months Ended June 30, 2011 and 2010

Revenue. We recognized no revenue for the six months ended June 30, 2011 and 2010.

We have not generated any revenue from product sales to date, and we do not expect to generate revenue from product sales until such time, if any, that we have obtained approval from a regulatory agency to sell one or more of our product candidates, which we cannot predict will occur.

R&D Expenses. We maintain and evaluate our R&D expenses by the type of cost incurred rather than by project. We maintain and evaluate R&D expenses by type primarily because we outsource a substantial portion of our work and our R&D personnel and consultants work across multiple programs rather than dedicating their time to one particular program. We began maintaining such expenses by type on January 1, 2005. The following table summarizes our consolidated R&D expenses by type for each of the periods listed:

	Six months ended June 30,	
	2011	**2010**
External bioequivalence and clinical trial fees and expenses	$ 323,092	$ 46,111
External nonclinical study fees and expenses (1)	1,471,013	1,740,260
Personnel costs	221,364	91,038
Share-based compensation expense	(61,603)	(4,314)
Total	$ 1,953,866	$ 1,873,095

(1) External nonclinical study fees and expenses include preclinical, research-related manufacturing, quality assurance and regulatory expenses.

R&D expenses increased by $0.1 million, or approximately 4.3%, to $2.0 million for the six months ended June 30, 2011, compared to $1.9 million for the same period in 2010. The increase in R&D expenses for the six months ended June 30, 2011 compared to the same period in 2010 was due primarily to a $0.3 million increase in external bioequivalence and clinical trial fees and expenses, a $0.3 million decrease in external nonclinical study fees and expenses and a $0.1 million increase in personnel costs. The increase in external bioequivalence and clinical trial fees and expenses is primarily related to increased clinical trial work of $0.2 million for Exelbine and clinical consulting expenses of $0.1 million for ANX-188. The decrease in external nonclinical study fees and expenses is primarily related to a $0.5 million decrease in research-related manufacturing expenses for ANX-514 and a $0.4 million decrease in fees for regulatory consulting services related to ANX-514, offset by an increase of $0.5 million in research-related manufacturing expenses for Exelbine and an increase of $0.1 million in analytical development expenses for ANX-188.

We expect R&D expenses to increase in 2011 relative to 2010 to support development of ANX-514 and ANX-188 and any other technologies and/or product candidates we may acquire, including the potential addition of new clinical, regulatory and manufacturing personnel.

Selling, General and Administrative Expenses. SG&A expenses increased by $0.9 million, or approximately 37.1%, to $3.4 million for the six months ended June 30, 2011, compared to $2.5 million for the same period in 2010. This increase resulted primarily from a $0.4 million increase in personnel costs, mainly due to an accrual for estimated bonus expense related to 2011 performance and additional staff hired in 2011, and a $0.5 million increase in commercial-readiness activities for Exelbine.

We expect SG&A expenses to increase in 2011 relative to 2010 as we prepare for the commercial launch of Exelbine and, should it be approved, as we launch Exelbine, and any other products we may acquire, including the potential addition of sales and marketing personnel, and to support development of ANX-514 and ANX-188 and any other technologies, product candidates and/or products we may acquire.

Transaction-Related Expenses. Transaction-related expenses were $2.0 million for the six months ended June 30, 2011, compared to $0 for the same period in 2010. Transaction-related expenses for the six months ended June 30, 2011 consisted of $1.8 million related to legal, accounting, financial and business development advisory fees associated with the evaluation of potential acquisition targets, including SynthRx, and $0.2 million related to changes in the fair value of contingent consideration related to the SynthRx acquisition.

Interest and Other Income. Interest income amounted to $43,869 for the six months ended June 30, 2011, compared to $41,748 for the same period in 2010. The small increase in interest income for the six months ended June 30, 2011 was attributable primarily to overall larger invested balances in 2011 as compared to 2010. Even though we raised additional capital through our registered direct equity financings in 2009 through January 2011, we expect that interest income will continue to be low due to negligible interest rates.

Net Loss Applicable to Common Stock. Net loss applicable to common stock was $7.3 million, or $0.30 per share, for the six months ended June 30, 2011, compared to net loss applicable to common stock of $10.0 million, or $0.86 per share, for the same period in 2010. Included in net loss applicable to common stock for the six months ended June 30, 2010 was non-cash deemed dividend expense of $5.6 million related to our January and May 2010 registered direct equity financings.

Liquidity and Capital Resources

We have a history of annual losses from operations and we have funded our operations primarily through sales of our equity securities. We had a net loss of $4.4 million for the three months ended June 30, 2011 and cash of approximately $42.0 million as of June 30, 2011.

In January 2011, we completed a registered direct equity financing involving the issuance of units consisting of shares of our common stock and common stock purchase warrants. This financing resulted in $22.5 million in gross proceeds, and we received $21.0 million in net proceeds after deducting the fees and expenses of our placement agent and our other offering expenses.

We may receive up to $0.8 million, $4.4 million, $9.5 million and $11.3 million of additional net proceeds from the exercise of warrants issued in the registered direct equity financings we completed in October 2009, January and May 2010 and January 2011, respectively; however, the exercise of these warrants is subject to certain beneficial ownership limitations. In addition, we may receive up to $3.7 million of additional net proceeds from the exercise of warrants issued to our placement agent as additional consideration for services in connection with certain of our registered direct equity financings.

For a more detailed discussion of our 2010 and 2011 equity financings, see Note 11, “Stockholders’ Equity,” in the Notes to Condensed Consolidated Financial Statements (Unaudited) in this report.

For a discussion of our liquidity and capital resources outlook, see “Management Outlook” below.

Operating activities. Net cash used in operating activities was $7.0 million for the six months ended June 30, 2011 compared to $5.2 million for the same period in 2010. The increase in cash used in operating activities was primarily due to a higher net loss in 2011 as compared to 2010 ($3.0 million) and a loss on the change in fair value of contingent consideration ($0.2 million), offset by lower share-based compensation expense ($0.2 million) and changes in assets and liabilities ($1.2 million), primarily due to an increase in accounts payable and accrued liabilities.

Investing activities. Net cash used in investing activities was $11,903 for the six months ended June 30, 2011 compared to $6,780 for the same period in 2010. The difference was primarily due to an increase in purchases of property and equipment, which was offset by the receipt of proceeds from the sale of property and equipment.

Financing activities. Net cash provided by financing activities was $21.0 million for the six months ended June 30, 2011 compared to $27.7 million for the same period in 2010. The cash provided by financing activities for the six months ended June 30, 2011 reflects net proceeds of $21.0 million from our January 2011 registered direct equity financing. The cash provided by financing activities for the six months ended June 30, 2010 reflects adjusted net proceeds of $27.4 million from our January and May 2010 registered direct equity financings and proceeds of $0.3 million from the exercise of warrants issued in our June 2009 registered direct equity financing.

Management Outlook

We anticipate that our cash as of June 30, 2011 will be sufficient to fund our currently planned level of operations for at least the next 12 months. However, our future capital uses and requirements will be affected by numerous forward-looking factors that, depending on their actual outcome, could shorten or extend the period through which our operating funds will sustain us. These factors include, but are not limited to: the extent to which we acquire new technologies, product candidates, products or businesses; the scope, prioritization and number of development and/or commercialization programs we pursue; the rate of progress and costs of development and regulatory approval activities associated with our product candidates, including conducting manufacturing process development activities and manufacturing clinical trial material; the rate of progress and costs to comply with post-approval requirements imposed on our products candidates, should any be approved; the extent to which we partner or collaborate with third parties to develop, seek regulatory approval of and commercialize our product candidates or products, or sell or license our product candidates or products to others; the costs and timing of acquiring and/or developing sales, marketing and distribution capabilities and associated regulatory compliance and administrative capabilities to commercialize Exelbine in the U.S., regardless of whether Exelbine is ultimately approved by the FDA; the costs and timing of acquiring or developing similar commercialization capabilities for other of our current product candidates, and any product candidates or products we may acquire in the future, and whether any of our product candidates for which we receive regulatory approval, if any, achieve broad market acceptance. In addition, as of August 4, 2011, we have only 11 full-time employees and one part-time employee and rely on third parties to perform many essential services for us. Increasing the size of our workforce will also impact the period through which our operating funds will sustain us, but the timing and extent to which we do so is difficult to predict as it will be influenced by the rate of progress of development and regulatory approval of our product candidates and whether we partner them, as well as the extent to which we acquire and develop new technologies, product candidates, products or businesses.

We continue to undertake commercial-readiness activities with respect to Exelbine to prepare for its launch in the U.S., should the FDA approve our Exelbine NDA. In preparing for the potential commercial launch of Exelbine, we have developed and expect to continue to develop and/or acquire internal marketing, distribution and sales capabilities and associated regulatory compliance capabilities, as well as contract with third parties to supplement and enhance our internal capabilities. Such activities may result in a substantial increase in our workforce during the remainder of 2011. Our preliminary estimate of Exelbine commercialization-related expenses for the remainder of 2011 is approximately $3.0 million. We believe our recurring sales and marketing expenses for Exelbine will be less than $10 million annually.

We also continue to develop ANX-514 following our February 2011 meeting with the FDA. We are in the process of developing a protocol for an ANX-514 safety study for submission to the FDA. We believe this study will provide sufficient clinical data to support an ANX-514 NDA, should the study demonstrate comparable safety profiles between ANX-514 and Taxotere. In 2011, we expect to use our capital to develop the study protocol, conduct manufacturing process development activities and manufacture the clinical trial material that would enable us to initiate the study in 2012, should we reach agreement with the FDA as to the study protocol. In parallel, we also expect to continue to pursue partnering and other strategic opportunities for ANX-514, including its sale or exclusive license to a third party. However, partnering and other strategic options may not be available on acceptable terms, if at all. As our discussions with the FDA progress, if we determine the anticipated capital requirements associated with continued development of ANX-514 are not financially justifiable, we may determine to discontinue this program.

In April 2011, we completed our acquisition of SynthRx, Inc. and SynthRx became a wholly owned subsidiary of ours. SynthRx's lead product candidate is a novel, purified, rheologic and antithrombotic compound that we are developing as ANX-188. Initially, we are developing ANX-188 as a first-in-class treatment for pediatric patients with sickle cell disease in acute crisis, and, if we are able to reach agreement with the FDA on a study protocol on a timely basis, we may initiate a phase 3 clinical trial of ANX-188 for that indication in 2012. In parallel, we expect to prepare to initiate a clinical trial, including conducting manufacturing process development activities and manufacturing clinical material, which could enable us to initiate it in 2012. We have and may continue to increase our workforce in connection with our development of ANX-188. Until we reach agreement with the FDA, we cannot forecast with any degree of certainty the costs that would be associated with our development of ANX-188 for the treatment of pediatric patients with sickle cell disease in acute crisis. However, our preliminary estimate of third party costs related to this development program through submission of an NDA is approximately $15 million to $25 million.

In connection with the completion of the SynthRx acquisition, we issued 2,800,851 shares of our common stock to the former SynthRx stockholders, 1,938,773 of which are subject to repurchase by us in the event development of ANX-188 does not achieve the First Milestone and 200,000 of which are subject to escrow to indemnify us against breaches of representations and warranties in the merger agreement, and we assumed $0.3 million of SynthRx's transaction expenses, some of which are subject to dispute. We could issue up to an aggregate of 13,478,050 additional shares of our common stock to the former SynthRx stockholders if the development of ANX-188 achieves the First Milestone, Second Milestone and Third Milestone.

We continue to evaluate additional opportunities to expand our product pipeline and may do so through one or more in-license, asset acquisition or merger transactions. We continue to believe that, due to a challenging capital raising environment, many drug development programs with substantial potential currently are available at attractive valuations. The process of identifying and evaluating various opportunities may be lengthy and complex and divert management's attention from our current development programs, and we may not be able to acquire or acquire rights to additional technologies, product candidates and/or products on acceptable terms, or at all. We have limited resources to identify, evaluate and negotiate the acquisition of new technologies, product candidates and/or products or rights thereto and to integrate them into our current infrastructure. Supplementing our current resources to complete one or more transactions may be costly. We anticipate that our capital requirements will increase in future periods if we are successful in expanding our product pipeline.

We may also seek or need to raise additional capital through public or private sales of our equity securities or debt financings. However, we may not be able to obtain additional financing on a timely basis or on acceptable terms, if at all.

Recent Accounting Pronouncements

See Note 8, "Recent Accounting Pronouncements," of the Notes to the Condensed Consolidated Financial Statements (Unaudited) in this report for a discussion of recent accounting announcements and their effect, if any, on us.

Forward Looking Statements

This quarterly report, particularly Part I, Item 2, "Management's Discussion and Analysis of Financial Condition and Results of Operations," includes forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. All statements, other than statements of historical fact, are statements that could be deemed forward-looking statements, including statements we make regarding our business strategy, expectations and plans, our objectives for future operations and our future financial position. Forward-looking statements can be identified by words such as "believe," "may," "could," "will," "estimate," "continue," "anticipate," "intend," "expect," "indicate" and similar expressions. Examples of forward-looking statements include, but are not limited to, statements we make regarding expanding our product pipeline, activities related to developing and seeking regulatory approval for Exelbine, ANX-514 and ANX-188, seeking to partner or collaborate with third parties with respect to the development and commercialization of our product candidates, the sale or exclusive license of one or more of our product candidate programs, raising additional capital, and our belief that we have sufficient liquidity to fund our currently planned level of operations for at least the next 12 months. The foregoing is not an exclusive list of all forward-looking statements we make.

We have based the forward-looking statements we make on our current expectations and projections about future events and trends that we believe may affect our financial condition, results of operations, business strategy, short-term and long-term business operations and objectives, and financial needs. The forward-looking statements we make are subject to risks and uncertainties that could cause our actual results to differ materially from those reflected in such forward-looking statements. Factors that could cause or contribute to such differences include, but are not limited to the following:

- the extent to which we acquire new technologies, product candidates, products or businesses and our ability to integrate them, including the assets we recently acquired from SynthRx, Inc., successfully into our operations;
- our ability, or that of a future partner, to successfully develop and obtain regulatory approval for our product candidates and, if approved, to successfully commercialize them in the U.S. and/or elsewhere;

- our ability to obtain stockholder approval to complete other product pipeline expansion transactions, if necessary, on a timely basis, or at all;
- the potential that we may enter into a merger or other business combination whereby the stockholders who own the majority of our voting securities prior to the transaction own less than a majority after the transaction;
- the potential that we may enter into one or more commercial partnerships or other strategic transactions relating to our product candidates, and the terms of any such transactions;
- our ability to obtain additional funding to develop and commercialize our current product candidates and any product candidates or products we may acquire in the future, on a timely basis or on acceptable terms, or at all;
- the extent to which we rebuild our workforce and our ability to attract and retain qualified personnel and manage growth;
- delays in the commencement or completion of nonclinical testing, bioequivalence or clinical trials of or manufacturing, regulatory or launch activities related to our product candidates;
- the success of future clinical or bioequivalence trials;
- our ability to develop or acquire sales, marketing and distribution capabilities to commercialize any of our product candidates for which we obtain regulatory approval;
- whether any of our product candidates for which we receive regulatory approval, if any, achieve broad market acceptance;
- our ability to maintain our relationships with the single source manufacturers and suppliers for certain of our product candidates and their component materials and the ability of such manufacturers and suppliers to successfully and consistently manufacture and supply, as applicable, our products and their component materials on a commercial scale, if we receive regulatory approval to commercialize our product candidates;
- the satisfactory performance of third parties on whom we rely significantly to conduct our nonclinical testing and bioequivalence and clinical studies and other aspects of our development programs;
- undesirable side effects that our product candidates may cause;
- our ability to protect our intellectual rights with respect to our product candidates and proprietary technology;
- claims against us for infringing the proprietary rights of third parties;
- competition in the marketplace for our products, if any are approved;
- healthcare reform measures and reimbursement policies that, if not favorable to our products, could hinder or prevent our products' commercial success;
- potential product liability exposure and, if successful claims are brought against us, liability for a product or product candidate;
- our ability to maintain compliance with NYSE Amex continued listing standards and maintain the listing of our common stock on the NYSE Amex or another national securities exchange; and
- the other factors that are described in the section entitled "Risk Factors," in Item 1A of Part I of our annual report on Form 10-K for the year ended December 31, 2010.

Except as required by law, we do not intend to update the forward-looking statements discussed in this report publicly or to update the reasons actual results could differ materially from those anticipated in these forward-looking statements, even if new information becomes available in the future.

In light of these risks and uncertainties and our assumptions, the forward-looking events and circumstances discussed in this report and in the documents incorporated in this report may not occur and actual results could differ materially and adversely from those anticipated or implied in such forward-looking statements. Accordingly, you are cautioned not to place undue reliance on such forward-looking statements.

Item 3. Quantitative and Qualitative Disclosures About Market Risk

Under the rules and regulations of the U.S. Securities and Exchange Commission, or SEC, as a smaller reporting company we are not required to provide the information required by this item.

Item 4. Controls and Procedures

Evaluation of Disclosure Controls and Procedures

As of the end of the period covered by this report, we conducted an evaluation, under the supervision and with the participation of our principal executive officer and principal financial officer, of 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. Based on this evaluation, our principal executive officer and principal financial officer concluded that our disclosure controls and procedures were effective as of June 30, 2011.

Changes in Internal Control over Financial Reporting

There was no change in our internal control over financial reporting identified in connection with the evaluation required by Rules 13a-15(d) and 15d-15(d) under the Exchange Act that occurred during the period covered by this report that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

PART II — OTHER INFORMATION

Item 1. Legal Proceedings

In the normal course of business, we may become subject to lawsuits and other claims and proceedings. Such matters are subject to uncertainty and outcomes are often not predictable with assurance.

Item 1A. Risk Factors

Under the rules and regulations of the SEC, as a smaller reporting company we are not required to provide the information required by this item.

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

An Exhibit Index has been attached as part of this report and is incorporated herein by reference.

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.

ADVENTRX Pharmaceuticals, Inc.

Date: August 8, 2011

By: /s/ Brian M. Culley
Brian M. Culley
Chief Executive Officer
(Principal Executive Officer)

By: /s/ Patrick L. Keran
Patrick L. Keran
President and Chief Operating Officer
(Principal Financial Officer)

EXHIBIT INDEX

Exhibit	Description
2.1(1) †	Agreement and Plan of Merger, dated February 12, 2011, by and among the registrant, SRX Acquisition Corporation, SynthRx, Inc. and, solely with respect to Sections 2 and 8, the Stockholders' Agent.
10.1(1) †	Stockholders' Voting and Transfer Restriction Agreement, dated February 12, 2011, by and among the registrant, each of the principal stockholders of SynthRx, Inc. and, solely with respect to Section 3(c), the Stockholders' Agent.
10.2(1) †	License Agreement, dated June 8, 2004, between SynthRx, Inc. and CytRx Corporation, as amended by that certain Letter Agreement Re: Amendment to License Agreement, dated August 3, 2006, and that certain Agreement and Amendment No. 2 to License Agreement, dated December 1, 2010.
10.3(2) #	ADVENTRX Pharmaceuticals, Inc. Amended and Restated 2008 Omnibus Incentive Plan.
10.4(2) #	Form of [Non-Statutory][Incentive] Stock Option Grant Agreement (for consultants/employees) under the Amended and Restated 2008 Omnibus Incentive Plan.
10.5(2) #	Form of Non-Statutory Stock Option Grant Agreement — Director under the Amended and Restated 2008 Omnibus Incentive Plan.
31.1	Certification of principal executive officer pursuant to Rules 13a-14(a)/15d-14(a).
31.2	Certification of principal financial officer pursuant to Rules 13a-14(a)/15d-14(a).
32.1*	Certification of principal executive officer and principal financial officer pursuant to 18 U.S.C. 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
101.INS**	XBRL Instance Document
101.SCH**	XBRL Taxonomy Extension Schema Document
101.CAL**	XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF**	XBRL Taxonomy Extension Definition Linkbase Document
101.LAB**	XBRL Taxonomy Extension Label Linkbase Document
101.PRE**	XBRL Taxonomy Extension Presentation Linkbase Document

† Indicates that confidential treatment has been requested or granted to certain portions, which portions have been omitted and filed separately with the SEC.

# Indicates management contract or compensatory plan.

* This certification is being furnished solely to accompany this report pursuant to 18 U.S.C. 1350, and is not being filed for purposes of Section 18 of the Securities Exchange Act of 1934 and is not to be incorporated by reference into any filing of the registrant, whether made before or after the date hereof, regardless of any general incorporation language in such filing.

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

(1) Filed with the registrant's Current Report on Form 8-K on April 11, 2011 (SEC file number 001-32157-11752769).

(2) Filed with the registrant's Form S-8 Registration Statement on June 16, 2011 (SEC file number 333-174940-11914946).

Exhibit 31.1

CERTIFICATION OF PRINCIPAL EXECUTIVE OFFICER PURSUANT TO SECURITIES EXCHANGE ACT RULES 13a-14(a) AND 15(d)-14(a) AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Brian M. Culley, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of ADVENTRX Pharmaceuticals, Inc.;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;

4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:

   a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

   b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

   c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

   d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of 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.

August 8, 2011

/s/ Brian M. Culley
Brian M. Culley
Chief Executive Officer
(Principal Executive Officer)

Exhibit 31.2

CERTIFICATION OF PRINCIPAL FINANCIAL OFFICER PURSUANT TO SECURITIES EXCHANGE ACT RULES 13a-14(a) AND 15(d)-14(a) AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Patrick L. Keran, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of ADVENTRX Pharmaceuticals, Inc.;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;

4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:

   a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

   b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

   c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

   d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of 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.

August 8, 2011

/s/ Patrick L. Keran
Patrick L. Keran
President and Chief Operating Officer
(Principal Financial Officer)

Exhibit 32.1

CERTIFICATION OF PRINCIPAL EXECUTIVE OFFICER AND PRINCIPAL FINANCIAL OFFICER PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Quarterly Report of ADVENTRX Pharmaceuticals, Inc. (the "Company") on Form 10-Q for the quarter ended June 30, 2011, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Brian M. Culley, principal executive officer of the Company, certify pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

(i) the Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, and

(ii) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

August 8, 2011

/s/ Brian M. Culley
Brian M. Culley
Chief Executive Officer
(Principal Executive Officer)

In connection with the Quarterly Report of ADVENTRX Pharmaceuticals, Inc. (the "Company") on Form 10-Q for the quarter ended June 30, 2011, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Patrick L. Keran, principal financial officer of the Company, certify pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

(i) the Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, and

(ii) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

August 8, 2011

/s/ Patrick L. Keran
Patrick L. Keran
President and Chief Operating Officer
(Principal Financial Officer)