UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Form 8-K

Current Report

Pursuant to Section 13 or 15(d) of the **Securities Exchange Act of 1934**

Date of Report (Date of earliest event reported) March 30, 2012

CORTEX PHARMACEUTICALS, INC.

(Exact name of registrant as specified in its charter)

	Delaware	1-16467	33-0303583		
	(State or other jurisdiction	(Commission	(I.R.S Employer		
	of incorporation)	File Number)	Identification No.)		
	15241 Barranca l	Parkway			
Irvine, California			92618		
(Address of principal executive offices)		(Zip Code)			
	Registrant's to	elephone number, including area code: (949) 7	27-3157		
		N/A			
	(F	ormer name or former address, if changed since last report.)			
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	ek the appropriate box below if the Form 8-K filing is isions:	intended to simultaneously satisfy the filing obliga	tion of the registrant under any of the following		
	Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)				
	Soliciting material pursuant to Rule 14a-12 under the	e Exchange Act (17 CFR 240.14a-12)			
	Pre-commencement communications pursuant to Rul	le 14d-2(b) under the Exchange Act (17 CFR 240.1	(4d-2(b))		
	Pre-commencement communications pursuant to Rule	e 13e-4(c) under the Exchange Act (17 CFR 240.13	8e-4(c))		

Item 2.02. Results of Operations and Financial Condition.

On March 30, 2012, Cortex Pharmaceuticals, Inc. issued a press release to report its financial results. The press release is attached hereto as Exhibit 99.1 and is incorporated herein by reference.

All of the foregoing information, including Exhibit 99.1, is being furnished under Item 2.02 and shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, or otherwise subject to the liability of that section, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, except as shall be expressly set forth by specific reference in such a filing.

Item 9.01. Financial Statements and Exhibits.

- (a) Financial Statements of Businesses Acquired: None.
- (b) Pro Forma Financial Information: None.
- (c) Shell Company Transactions: None.
- (d) Exhibits.

Exhibit Number

er Description

99.1 Press release of Cortex Pharmaceuticals, Inc. dated March 30, 2012.

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 hereunto duly authorized.

CORTEX PHARMACEUTICALS, INC.

Date: March 30, 2012 By: /s/ Maria S. Messinger

Maria S. Messinger

Vice President, Chief Financial Officer and Corporate Secretary

EXHIBIT INDEX

Exhibit Number Description Sequential Page No.

99.1 Press release of Cortex Pharmaceuticals, Inc. dated March 30, 2012.

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PRESS RELEASE

Company Contact:
Mark A. Varney, Ph.D.
President and CEO
Cortex Pharmaceuticals, Inc.
949.727.3157

CORTEX REPORTS FOURTH QUARTER AND YEAR END OPERATING RESULTS

IRVINE, CA (March 30, 2012) — Cortex Pharmaceuticals, Inc. (OTCBB (CORX)) reported net income of approximately \$832,000, or \$0.01 per share, for the quarter ended December 31, 2011, compared with a net loss of approximately \$984,000, or \$0.01 per share, for the corresponding prior year quarter.

For the fiscal year ended December 31, 2011, the Company reported a net loss of approximately \$2,255,000, or \$0.03 per share, compared with net income of approximately \$1,629,000, or \$0.02 per share for the corresponding prior year period.

Revenues for the quarter ended December 31, 2011 include \$2,000,000 received from Servier upon exercise of its option to acquire sole ownership of the patent rights to the jointly discovered AMPAKINE® CX1632. As previously announced, in June 2011 Servier provided Cortex with a nonrefundable \$1,000,000 payment in exchange for an option to expand its rights to the compound.

Operating expenses for the quarter ended December 31, 2011 decreased to approximately \$1,169,000 from approximately \$1,267,000 for the corresponding prior year period, due mostly to decreased personnel and consulting costs, partially offset by sublicense fees to the University of California triggered by Servier's option exercise.

For the year ended December 31, 2010, revenues include \$10,000,000 from the Company's March 2010 transaction with Biovail. Operating expenses for the fiscal year ended December 31, 2011 decreased to approximately \$5,376,000 from approximately \$8,292,000 for the prior year, with the decrease mostly due to sublicense fees and administrative expenses during the prior year related to the Biovail transaction.

Interest expense of \$553,000 for the year ended December 31, 2010 includes non-cash charges related to the June 2010 conversion of the promissory note issued to Samyang Optics Co., Ltd. ("Samyang") of Korea. As reported earlier, the convertible note was issued in connection with the Company's \$1,500,000 private placement to Samyang in January 2010.

In October 2011, Cortex announced a private placement of \$500,000 with Samyang Value Partners, Co., Ltd., a wholly owned subsidiary of Samyang. The private placement included the issuance of unregistered shares of the Company's common stock and warrants to purchase additional unregistered shares of its common stock. The purchase price for the shares was computed based upon a weighted average of the closing prices of the Company's common stock for the five trading days prior to signing the definitive agreement.

More recently, the Company announced the issuance by the United States Patent and Trademark Office of two key patents that protect the next generation of AMPAKINE compounds, and in particular the Company's focus on breathing-related disorders. The USPTO issued both a composition-of-matter patent and a divisional patent covering methods of use, including the treatment of opioid-induced respiratory depression. These issued patents will provide protection from competitors through August 2028.

Cortex Pharmaceuticals, Inc.

Cortex, located in Irvine, California, is a clinical-stage specialty pharmaceutical company focused primarily on the discovery, development and commercialization of positive AMPA-type glutamate receptor modulators. Cortex has pioneered a class of proprietary pharmaceuticals called A MPAKINE compounds, which act to increase the strength of signals at connections between brain cells. Recent research has focused on the use of A MPAKINE compounds for the potential treatment or prevention of respiratory depression induced by opioid analgesics, anesthetic agents and benzodiazepines, as well as the potential treatment for central sleep apnea. For additional information regarding Cortex, please visit the Company's website at http://www.cortexpharm.com.

Forward-Looking Statement

Note — This press release contains forward-looking statements concerning the Company's research and development activities. Words such as "believes," "anticipates," "plans," "expects," "indicates," "will," "intends," "potential," "suggests," "assuming," "designed" and similar expressions are intended to identify forward-looking statements. These statements are based on the Company's current beliefs and expectations. The success of such activities depends on a number of factors, including the risks that the Company's proposed products may at any time be found to be unsafe or ineffective for any or all of their proposed indications; that patents may not issue from the Company's patent applications; that competitors may challenge or design around the Company's patents or develop competing technologies; that the Company may have insufficient resources to undertake proposed clinical studies and that preclinical or clinical studies may at any point be suspended or take substantially longer than anticipated to complete. As discussed in the Company's Securities and Exchange Commission filings, the Company's proposed products will require additional research, lengthy and costly preclinical and clinical testing and regulatory approval. AMPAKINE compounds are investigational drugs and have not been approved for the treatment of any disease. Readers are cautioned not to place undue reliance on these forward-looking statements that speak only as of the date of this press release. The Company undertakes no obligation to update publicly any forward-looking statements to reflect new information, events or circumstances after the date of this press release or to reflect the occurrence of unanticipated events.

(tables follow)

Cortex Pharmaceuticals, Inc. Condensed Statements of Operations (in thousands, except per share data)

		Three months ended December 31,		Fiscal year ended December 31,	
	2011 (Unaudited)	(Unaudited)	2011	2010	
Revenues	\$ 2,002	\$ 281	\$ 3,114	\$ 10,474	
Operating expenses:					
Research and development	454	392	2,187	3,739	
General and administrative	<u>715</u>	875	3,189	4,553	
Total operating expenses	1,169	1,267	5,376	8,292	
Income (loss) from operations	833	(986)	(2,262)	2,182	
Interest (expense) income, net	(1)	2	7	(553)	
Net income (loss)	\$ 832	\$ (984)	\$ (2,255)	\$ 1,629	
Income (loss) per share:					
Basic and diluted	\$ 0.01	\$ (0.01)	\$ (0.03)	\$ 0.02	
Shares used in computing per share amounts					
Basic	83,393	78,858	79,989	73,678	
Diluted	83,393	78,858	79,989	73,689	

Cortex Pharmaceuticals, Inc. Reconciliation of Reported Net Income Applicable to Common Stock and Diluted Income per Share Attributable to Common Stock (in thousands, except per share data)

	For the Fi	For the Fiscal Year Ended December 31, 2010		
	Income (Numerator)	Shares (Denominator)	Per-Share Amount	
Basic Earnings per Share:				
Income applicable to common stock	\$ 1,629	73,678	\$ 0.02	
Effect of Dilutive Securities:				
Options to purchase common stock		11		
Diluted Earnings per Share:				
Income applicable to common stock				
+ assumed conversions	\$ 1,629	73,689	\$ 0.02	

Cortex Pharmaceuticals, Inc. Condensed Balance Sheets (in thousands)

	December 31, 2011	December 31, 2010
Assets:		
Cash and cash equivalents	\$ 1,611	\$ 1,037
Marketable securities	_	1,993
Restricted cash	48	156
Other current assets	86	90
	1,745	3,276
Furniture, equipment and leasehold improvements, net	67	250
Other	9	41
Total assets	\$ 1,821	\$ 3,567
Liabilities and Stockholders' Equity:		
Accounts payable and accrued expenses	\$ 1,145	\$ 1,156
Non-current liabilities	_	8
Stockholders' equity	676	2,403
Total liabilities and stockholders' equity	\$ 1,821	\$ 3,567

MORE INFORMATION AT <u>www.cortexpharm.com</u>

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