

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) **July 5, 2005**

ADVENTRX Pharmaceuticals, Inc.
(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of incorporation)

001-32157
(Commission File Number)

84-1318182
(IRS Employer Identification No.)

6725 Mesa Ridge Road, Suite 100
San Diego, California 92121
(Address of principal executive offices) (Zip Code)

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

Item 8.01. Other Events.

On July 5, 2005, the Company announced it has been added to the Russell Investment Group's new Russell Microcap™ Index.

The press release issued by the Company on July 5, 2005 with respect to this matter is included with this report as an exhibit.

Item 9.01. Financial Statements and Exhibits.

(c) The exhibit list required by this item is incorporated by reference to the Exhibit Index filed as part of this report.

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.

ADVENTRX Pharmaceuticals, Inc.

By: /s/ Carrie E. Carlander

Name: Carrie E. Carlander

Title: Chief Financial Officer, Vice President, Finance, and Treasurer

July 5, 2005

EXHIBIT INDEX

<u>Exhibit</u>	<u>Description</u>
99.1	Press Release of the Company dated July 5, 2005.

ADVENTRX JOINS THE NEW RUSSELL MICROCAP INDEX

SAN DIEGO - July 5, 2005 - ADVENTRX Pharmaceuticals, Inc. (Amex: ANX) today announced that it has been added to the Russell Investment Group's new Russell Microcap™ Index. Russell's final membership lists of reconstituted U.S. indexes are available at: <http://www.russell.com/us/indexes/us/membership.asp>.

The Russell Microcap Index is comprised of the smallest 1,000 securities in the small-cap Russell 2000[®] Index plus the next 1,000 companies, based on a ranking of all U.S. equities by market capitalization. According to Russell, the Microcap Index was designed to offer managers and other investors a comprehensive, unbiased barometer to compare their performance against the genuine microcap marketplace of stocks.

According to Russell, their indexes are widely used by investment managers and institutional investors for index funds and as benchmarks for both passive and active investment strategies. More than \$2.5 trillion in assets currently are benchmarked to them. Investment managers who oversee these funds purchase shares of member stocks according to that company's weighting in the particular index.

Companies added to the Russell Microcap Index were ranked as of May 31 by total market capitalization and weighted based on free-float adjustment, an integral aspect of Russell index methodology. Free-float adjustment means stocks are weighted by their available market capitalization, which is calculated by multiplying the closing price by the available shares.

About ADVENTRX

ADVENTRX Pharmaceuticals is a biopharmaceutical research and development company focused on introducing new technologies for anticancer and antiviral treatments that improve the performance and safety of existing drugs, by addressing significant problems such as drug metabolism, toxicity, bioavailability or resistance. The Company's lead compound, CoFactor, is a biomodulator of 5-fluorouracil (5-FU), a widely used cancer chemotherapy. CoFactor is currently being tested with 5-FU in a US-based Phase II and an EU-based Phase IIb clinical trial as a first line treatment of metastatic colorectal cancer. In addition, CoFactor has received clearance under a special protocol assessment from the US FDA to begin a Phase III pivotal clinical trial for metastatic colorectal cancer. More information can be found on the Company's Web site at www.adventrx.com.

About Russell Investment Group

Russell, a global leader in multi-manager investment services, provides investment products and services in more than 39 countries. Russell manages more than \$135 billion in assets and advises clients worldwide representing \$2.3 trillion. Founded in 1936, Russell is a subsidiary of Northwestern Mutual and is headquartered in Tacoma, Wash., with additional offices in New York, Toronto, London, Paris, Singapore, Sydney, Auckland and Tokyo.

Forward Looking Statement

This press release contains forward-looking statements within the meaning of the "safe harbor" provisions of the Private Securities Litigation Reform Act of 1995. Such statements are made based on management's current expectations and beliefs. Actual results may vary from those currently anticipated based upon a number of factors, including uncertainties inherent in the drug development process, the timing and success of clinical trials, the validity of research results, and the receipt of necessary approvals from the U.S. Food and Drug Administration (FDA) and other regulatory agencies. For a discussion of such risks and uncertainties, which could cause actual results to differ from those contained in the forward-looking statements, see "Risk Factors" in the Company's last quarterly report on Form 10-Q, as well as other reports that the Company files from time to time with the Securities and Exchange Commission. All forward-looking statements are qualified in their entirety by this cautionary statement. The Company undertakes no obligation to release publicly any revisions, which may be made to reflect events or circumstances after the date hereof.

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