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): January 12, 2004

VERTEX PHARMACEUTICALS INCORPORATED

(Exact name of registrant as specified in its charter)

MASSACHUSETTS (State or other jurisdiction of incorporation) **000-19319** (Commission File Number) **04-3039129** (IRS Employer Identification No.

130 Waverly Street Cambridge, Massachusetts 02139 (Address of principal executive offices) (Zip Code)

(617) 444-6100

Registrant's telephone number, including area code:

Item 12. Disclosure of Results of Operations and Financial Condition.

On January 12, 2004, Vertex Pharmaceuticals Incorporated issued a press release to report on its 2003 accomplishments, including a reiteration of its full year 2003 financial guidance, and its 2004 outlook. A copy of the press release is attached to this Current Report on Form 8-K as Exhibit 99.1.

The information in this Form 8-K shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934 (the "Exchange Act") or otherwise

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subject to the liabilities of that section, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933 or the Exchange Act, except as expressly set forth by specific reference in such a filing.

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.

VERTEX PHARMACEUTICALS INCORPORATED (Registrant)

Date: January 12, 2004

/s/ Ian F. Smith

Ian F. Smith Senior Vice President and Chief Financial Officer

EXHIBIT INDEX

99.1

The following exhibits are filed as part of this current report on Form 8-K:

Exhibit No.

FOR IMMEDIATE RELEASE

Vertex Pharmaceuticals Highlights 2003 Accomplishments and 2004 Outlook at 22nd Annual JPMorgan Healthcare Conference

Cambridge, MA, January 12, 2004 — Vertex Pharmaceuticals Incorporated (Nasdaq: VRTX) today presented its 2003 accomplishments and 2004 outlook at the 22nd Annual JPMorgan Healthcare Conference in San Francisco. The Company also provided preliminary results from the Phase II study of pralnacasan in osteoarthritis. The update was presented by Vicki Sato, Ph.D., President of Vertex Pharmaceuticals. A live webcast of the presentation will available on Vertex's website, www.vrtx.com, at 9:30 am PT, January 12, 2004. An archived webcast of the presentation will be available on Vertex's website through January 30, 2004.

"In 2003, Vertex made important advances in its business," stated Dr. Sato. "We launched the HIV protease inhibitor Lexiva[™] in the U.S. with our partner GlaxoSmithKline, strengthening our commercial presence in antivirals. We also expanded our commitment to developing new treatments for viral disease by selecting the oral HCV therapy merimepodib as a lead product candidate for full development and commercialization by Vertex. Supported by our strong financial profile and continued progress in other important areas of research and development, we have brought Vertex closer to our goal of becoming a major drug company."

"Disciplined execution in clinical development in 2003 is enabling Vertex to focus its research and development investment in 2004 in its antiviral and inflammation product portfolios," continued Dr. Sato. "We look forward to the continued advancement of Vertex-driven and partner-driven products in 2004 and believe that our clinical progress will ultimately drive a transition to profitability and sustained profit growth."

— more —

2004 Corporate Goals:

Vertex provided an overview of milestones for 2004 that will enable the Company to advance its business. Specific milestones included:

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• Advance HIV franchise with partner GlaxoSmithKline:

- Launch the new HIV protease inhibitor Lexiva[™] in Europe
- Begin Phase II development of investigational HIV protease inhibitor VX-385

Advance proprietary HCV pipeline:

- Initiate pivotal development of oral HCV therapy merimepodib
- Conduct Phase I development of oral HCV protease inhibitor VX-950
- Advance second-generation HCV compounds into preclinical development

Advance inflammation pipeline:

- Complete pilot Phase II trial of p38 MAP kinase inhibitor VX-702 for acute coronary syndromes (ACS)
- Initiate Phase II development of oral ICE inhibitor VX-765
- Complete toxicology evaluation for pralnacasan in partnership with Aventis

Invest in discovery organization

Select new drug development candidates in kinase and voltage-gated sodium ion channel research programs

Establish new pharmaceutical collaborations.

Pralnacasan Phase II Osteoarthritis Study: Preliminary Results

Aventis and Vertex today announced preliminary results from a Phase II study of pralnacasan in patients with osteoarthritis (OA) that was completed in 2003. The Phase II study, involving 522 patients with knee OA treated with one of three dosages of pralnacasan or placebo for 12 weeks, was designed to provide a preliminary evaluation of the safety and clinical activity of pralnacasan in OA patients. Aventis and Vertex reported that pralnacasan was well tolerated across all three dosage groups. There was improvement (29-35%) in all four treatment groups in the primary endpoint, total WOMAC scores, during the 12 weeks of study. (The WOMAC is "Western Ontario and McMasters Universities" scale for measuring signs and symptoms in OA studies.) However, there were no statistically significant differences in the change in total WOMAC score, between placebo treatment and any of the pralnacasan treatment groups. In the Phase II OA study reported today, Aventis and

Vertex reported statistically significant changes in some urine and serum markers of bone and cartilage turnover. However, interpretation of these results in the context of modifying the progression of OA requires additional scientific understanding, which may require further clinical validation.

The decision by Aventis and Vertex to proceed to longer-duration studies in OA and other inflammatory diseases will be part of a program review in the coming months, and will be based on the results of ongoing and planned toxicology studies and additional analysis of the current study.

"Pralnacasan has been the subject of an extensive Phase II clinical program, reflecting the promise of oral ICE inhibitors as a breakthrough strategy to treat a range of inflammatory diseases," said Vicki Sato, President of Vertex. "We will continue to work diligently in 2004 with Aventis to evaluate the clinical and toxicology results to determine the appropriate path forward."

Financial Outlook

Vertex today reiterated its guidance for a full-year 2003 loss, before charges and gains, of less than \$180 million.

Vertex plans to provide 2004 financial guidance when it releases its year-end 2003 financial results on Wednesday, February 11, 2004. In conjunction with this announcement, the Company will host a conference call at 5:00 pm (ET), February 11, 2004. The conference call also will be webcast. The webcast will be available to all interested parties through Vertex's website, www.vrtx.com. To access the webcast, go to the investor center and select "conference calls." The call will also be available via telephone at 800-374-0296.

"We are committed to a disciplined financial strategy that will support our short and long-term objectives," stated Ian Smith, Senior Vice President and CFO of Vertex Pharmaceuticals. "During 2004, we will invest in our proprietary products that are selected for late-stage development, we will adjust our R&D investment based on the progression of our early-stage drug candidates, and we will continue to seek pharmaceutical collaborations that are aligned with our short and long-term objectives."

About Vertex

Vertex Pharmaceuticals Incorporated is a global biotechnology company committed to the discovery and development of breakthrough small molecule drugs for serious diseases. The Company's strategy is to commercialize its products both independently and in collaboration with major pharmaceutical partners. Vertex's product pipeline is principally focused on viral diseases, inflammation, autoimmune diseases and cancer. In collaboration with GlaxoSmithKline, Vertex co-promotes the new HIV protease inhibitor, LexivaÔwith GlaxoSmithKline.

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Non-GAAP Financial Measures

In this press release, Vertex provides guidance for a 2003 loss, excluding certain charges and gains, of less than \$180 million, which is a non-GAAP financial measure. This guidance is provided as a complement to results provided in accordance with GAAP because management believes these non-GAAP financial measures help indicate underlying trends in the Company's business, and uses these non-GAAP financial measures to establish budgets and operational goals that are communicated internally and externally, to manage the Company's business and to evaluate its performance.

This press release may contain forward-looking statements, including statements that (i) VX-385 will enter Phase II development in 2004; (ii) Vertex-driven and partner-driven product candidates will continue to advance in 2004, and clinical progress will ultimately enable Vertex to transition to profitability and sustained profit growth; (iii) Lexiva will be approved and launched in Europe in 2004; (iv) pivotal development of merimepodib will begin in 2004; (v) Phase I development of VX-950 will begin in 2004; (vi) Vertex will advance second-generation HCV compounds in 2004; (vi) Vertex will complete a pilot Phase II trial of VX-702 for acute coronary syndromes; (viii) Vertex will initiate Phase II development of VX-765 in 2004; (ix) Vertex and Aventis will resolve the non-clinical toxicology finding with pralnacasan; (x) Vertex will advance new drug candidates from its ion channel and kinase research programs in 2004; (xi) Vertex will sign new collaborations in 2004; (xii) Vertex will achieve the financial guidance set forth above for 2003. While management makes its best efforts to be accurate in making forward-looking statements, such statements are subject to risks and uncertainties that could cause Vertex's actual results to vary materially. These risks and uncertainties include, among other things, the risks that (i) clinical trials will not reflect positive interim results, or clinical trial results may not be available when expected, or expected regulatory filings may not occur or may be delayed due to adverse clinical or non-clinical trial success of the Company; (ii) partnerships or collaborations for the future development of Securities and to vertex's drug candidates may not be available when expected, or patient emrs satisfactory to Vertex, if at all; (ii) Vertex will be unable to realize its financial objectives due to a variety of financial, technical or patientership considerations; and other risks listed under Risk Factors in Vertex's form 10-K filed with the Securities and Exchange Commission

LexivaÔ is a registered trademark of the GlaxoSmithKline group of companies.

Webcast:

Vertex Pharmaceuticals will webcast its corporate presentation at the 22nd Annual JPMorgan Healthcare Conference on January 12, 2004 at 9:30 am PT. A link to the webcast will be available via the Internet at Vertex's website, www.vrtx.com, in the Investor Center.

Vertex's press releases are available at www.vrtx.com.

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