UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-K/A

AMENDMENT No. 5

(Mark One)

x ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2004

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 0-30739

INSMED INCORPORATED

(Exact name of registrant as specified in its charter)

Virginia (State or other Jurisdiction of

incorporation or organization)

4851 Lake Brook Drive

54-1972729 (I.R.S. employer

identification no.)

(804) 565-3000

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Glen Allen, Virginia 23060 (Address of principal executive offices)

(Registrant s telephone number including area code)

(zip code)

Securities registered pursuant to Section 12(b) of the Act:

Title of each class None Name of each exchange on which registered None

Securities registered pursuant to Section 12(g) of the Act:

(Title of class) Common Stock Preferred Stock Purchase Rights

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 x No "

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant s knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

Indicate by check mark whether the registrant is an accelerated filer (as defined in Exchange Act Rule 12b-2). Yes x No "

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

The aggregate market value of the voting and non-voting common equity held by non-affiliates of the registrant on June 30, 2004 was \$86,024,160 (based on the closing price for shares of the registrant s Common Stock as reported on the Nasdaq National Market on that date). In determining this figure, the registrant has assumed that all of its directors, officers and persons owning 10% or more of the outstanding Common Stock are affiliates. This assumption shall not be deemed conclusive for any other purpose.

As of February 29, 2005, there were 44,986,996 shares of the registrant s common stock, \$.01 par value, outstanding.

EXPLANATORY NOTE

This Amendment to the Annual Report on Form 10-K amends the Annual Report on Form 10-K, and Amendment No. 3 and Amendment No. 4 to the Annual Report on Form 10-K, of Insmed Incorporated for the fiscal year ended December 31, 2004, filed with the Securities and Exchange Commission on March 16, 2005, May 13, 2005 and June 10, 2005, respectively (collectively, the Reports), solely to correct the inadvertent omission of certain language provided in Exhibit 31.1 and Exhibit 31.2. Each certification, as corrected by this Amendment, was true and correct as of the date of the original filing of the applicable Report.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) 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 in the City of Richmond, Commonwealth of Virginia, on the 9th day of March, 2006.

INSMED INCORPORATED a Virginia corporation (Registrant) By: /s/ Geoffrey Allan Geoffrey Allan, Ph.D.

Chairman of the Board, President and Chief

Executive Officer (Principal Executive Officer)

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the Registrant and in the capacities indicated on the 9th day of March, 2006.

Signature	Title
/s/ Geoffrey Allan	Chairman of the Board, President and Chief Executive Officer (Principal Executive Officer)
Geoffrey Allan, Ph.D.	
/s/ Kevin P. Tully	EVP, Chief Financial Officer
Kevin P. Tully	
/s/ Kenneth G. Condon	Director
Kenneth G. Condon	
/s/ Graham K. Crooke	Director
Graham K. Crooke, MB.BS	
/s/ Steinar J. Engelsen	Director
Steinar J. Engelsen, M.D.	
/s/ Melvin Sharoky	Director
Melvin Sharoky, M.D.	
/s/ Randall W. Whitcomb	Director
Randall W. Whitcomb, M.D.	

EXHIBIT INDEX*

Exhibit

Number Exhibit Title

- 3.1 Articles of Incorporation of Insmed Incorporated, as amended (previously filed as Annex H to the Joint Proxy Statement/Prospectus contained in Part I of Insmed Incorporated s Registration Statement on Form S-4 (Registration No. 333-30098) and incorporated herein by reference).
- 3.2 Amended and Restated Bylaws of Insmed Incorporated (previously filed as Annex I to the Joint Proxy Statement/Prospectus contained in Part I of Insmed Incorporated s Registration Statement on Form S-4 (Registration No. 333-30098) and incorporated herein by reference).
- 3.3 Form of Articles of Amendment to Insmed Incorporated s Articles of Incorporation, as amended, creating a new series of Preferred Stock designated as Series A Junior Participating Preferred Stock (previously filed as Exhibit A to the Rights Agreement, dated as of May 16, 2001, between Insmed Incorporated and First Union National Bank, as Rights Agent, filed as Exhibit 4.4 to Insmed Incorporated s Registration Statement on Form 8-A filed with the Securities and Exchange Commission on May, 17, 2001 and incorporated herein by reference).
- 3.4 Amendment for Reverse Split (previously filed as Exhibit 3.4 to Insmed Incorporated s Annual Report on Form 10-K for the year ended December 31, 2003 and incorporated herein by reference).
- 4.1 Description of Capital Stock (contained in the Articles of Incorporation filed as Exhibit 3.1).
- 4.2 Specimen stock certificate representing common stock, \$.01 par value per share, of the Registrant (previously filed as Exhibit 4.2 to Insmed Incorporated s Registration Statement on Form S-4 (Registration No. 333-30098) and incorporated herein by reference).
- 4.3 Article VI of the Articles of Incorporation of Insmed Incorporated (previously filed as Exhibit 4.1 to Insmed Incorporated s Registration Statement on Form S-4 (Registration No. 333-30098) and incorporated herein by reference).
- 4.4 Rights Agreement, dated as of May 16, 2001, between Insmed Incorporated and First Union National Bank, as Rights Agent (which includes as (i) Exhibit A the form of Articles of Amendment to Insmed Incorporated s Articles of Incorporation, as amended, (ii) Exhibit B the form of Rights Certificate, and (iii) Exhibit C the Summary of the Rights to Purchase Preferred Stock) (previously filed as Exhibit 4.4 to Insmed Incorporated s Registration Statement on Form 8-A filed with the Securities and Exchange Commission on May 17, 2001 and incorporated herein by reference).
- 4.5 Form of Rights Certificate (previously filed as Exhibit B to the Rights Agreement, dated as of May 16, 2001, between Insmed Incorporated and First Union National Bank, as Rights Agent, filed as Exhibit 4.4 to Insmed Incorporated s Registration Statement on Form 8-A filed with the Securities and Exchange Commission on May 17, 2001 and incorporated herein by reference).
- 4.6 Form of Stock and Warrant Purchase Agreement by and between Insmed Incorporated and each of the investors in the July 2003 private placement of common stock and warrants to purchase common stock (previously filed as Exhibit 4.6 to Insmed Incorporated s Registration Statement on Form S-3 (Registration No. 333-107308) on July 24, 2003 and incorporated herein by reference).
- 4.7 Form of Warrant issued by Insmed Incorporated to each of the investors in July 2003 private placement of common stock and warrants to purchase common stock (previously filed as Exhibit 4.7 to Insmed Incorporated s Registration Statement on Form S-3 (Registration No. 333-107308) on July 24, 2003 and incorporated herein by reference).
- 4.8 Form of Stock and Warrant Purchase Agreement by and between Insmed Incorporated and each of the investors in the November 2004 private placement of common stock and warrants to purchase common stock (previously filed as Exhibit 10.1 to Insmed Incorporated s Current Report on Form 8-K on November 10, 2004 and incorporated herein by reference).

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- 4.9 Form of Warrant issued by Insmed Incorporated to each of the investors in November 2004 private placement of common stock and warrants to purchase common stock (previously filed as Exhibit B to the Form of Stock and Warrant Purchase Agreement by and between Insmed Incorporated and each of the investors previously filed as Exhibit 10.1 to Insmed Incorporated s Current Report on Form 8-K on November 10, 2004 and incorporated herein by reference).
- 10.1 Insmed Incorporated 2000 Stock Purchase Plan (previously filed as Exhibit 10.1 to Insmed Incorporated s Registration Statement on Form S-4 (Registration No. 333-30098) as amended by the Amendment filed as Exhibit B to Insmed Incorporated s Definitive Proxy Statement filed May 10, 2005 each of which is incorporated herein by reference).
- 10.2 Insmed Incorporated 2000 Stock Incentive Plan (previously filed as Exhibit A to Insmed Incorporated s Definitive Proxy Statement filed on May 10, 2005 and incorporated herein by reference).
- 10.3 Amended and Restated License Agreement between Insmed Pharmaceuticals, Inc. and the University of Virginia Patent Foundation (previously filed as Exhibit 10.3 to Insmed Incorporated s Registration Statement on Form S-4 (Registration No. 333-30098) and incorporated herein by reference).
- 10.4+ Subscription, Joint Development and Operating Agreement by and among Celtrix Pharmaceuticals, Inc., Elan Corporation, plc, Elan International Services, Ltd., and Celtrix Newco Ltd. dated as of April 21, 1999 (previously filed as Exhibit 10.8 to Insmed Incorporated s Registration Statement on Form S-4 (Registration No. 333-30098) and incorporated herein by reference).
- 10.5+ License Agreement by and between Celtrix Newco Ltd. and Celtrix Pharmaceuticals, Inc. dated as of April 21, 1999 (previously filed as Exhibit 10.9 to Insmed Incorporated s Registration Statement on Form S-4 (Registration No. 333-30098) and incorporated herein by reference).
- 10.6+ License Agreement by and between Celtrix Newco Ltd. and Elan Pharmaceutical Technologies, a division of Elan Corporation, plc, dated as of April 21, 1999 (previously filed as Exhibit 10.10 to Insmed Incorporated s Registration Statement on Form S-4 (Registration No. 333-30098) and incorporated herein by reference).
- 10.7 License Agreement, dated as of April 1, 1993, between Genentech, Inc. and Celtrix Pharmaceuticals, Inc. (previously filed as Exhibit 10.11 to Insmed Incorporated s Registration Statement on Form S-4 (Registration No. 333-30098) and incorporated herein by reference).
- 10.8 Purchase Agreement among Insmed, Inc., Insmed Pharmaceuticals, Inc. and certain investors named therein dated January 13, 2000 (previously filed as Exhibit 10.12 to Insmed Incorporated s Registration Statement on Form S-4 (Registration No. 333-30098) and incorporated herein by reference).
- 10.9 Form of Warrant of Insmed to be issued pursuant to Purchase Agreement among Insmed Incorporated, Insmed Pharmaceuticals, Inc. and certain investors dated January 13, 2000 (previously filed as Exhibit 10.13 to Insmed Incorporated s Registration Statement on Form S-4 (Registration No. 333-30098) and incorporated herein by reference).
- 10.10 Form of Registration Rights Agreement among Insmed Incorporated, Insmed Pharmaceuticals, Inc. and certain investors party to the Purchase Agreement among Insmed Incorporated, Insmed Pharmaceuticals, Inc. and certain investors dated January 13, 2000 (previously filed as Exhibit 10.14 to Insmed Incorporated s Registration Statement on Form S-4 (Registration No. 333-30098) and incorporated herein by reference).
- 10.11+ License Agreement, dated as of July 10, 2000, between Insmed Pharmaceuticals, Inc. and Taisho Pharmaceutical Co., Ltd. (previously filed as Exhibit 10.15 to Insmed Incorporated s Registration Statement on Form S-1 (Registration No. 333-46552) and incorporated herein by reference).
- 10.12 Sublease, dated March 30, 2001, between Rhodia Inc. and Insmed Incorporated (previously filed as Exhibit 10.15 to Insmed Incorporated s Quarterly Report on Form 10-Q for the quarter ended March 31, 2001 and incorporated herein by reference).
- 10.13 Consent to Sublease, dated as of April 12, 2001, among A & W Virginia Corporation, as Landlord, Rhodia Inc., as Tenant, and Insmed Incorporated, as Subtenant (previously filed as Exhibit 10.16 to Insmed Incorporated s Quarterly Report on Form 10-Q for the quarter ended March 31, 2001 and incorporated herein by reference).

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- 10.14 Termination Agreement, dated as of February 3, 2003, between Insmed Pharmaceuticals, Inc. and Taisho Pharmaceutical Co., Ltd (previously filed as Exhibit 10.14 to Insmed Incorporated s Annual Report of Form 10-K for the year ended December 31, 2003 and incorporated herein by reference).
- 10.15+ Agreement, dated as of July 25, 2003, between Insmed Incorporated and Avecia Limited (previously filed as Exhibit 10.15 to Insmed Incorporated s Annual Report of Form 10-K for the year ended December 31, 2003 and incorporated herein by reference).
- 10.16+ License and Supply Agreement, dated as of August 28, 2003, between Insmed Incorporated and Pharmacia AB (previously filed as Exhibit 10.16 to Insmed Incorporated s Annual Report of Form 10-K for the year ended December 31, 2003 and incorporated herein by reference).
- 10.17 Agreement, dated as of March 3, 2004, between Insmed Incorporated and Geoffrey Allan, Ph.D. (previously filed as Exhibit 10.17 to the Insmed Incorporated s Annual Report on Form 10-K for the year ended December 31, 2003 and incorporated herein by reference).
- 10.18** License Agreement, dated as of January 19, 2004, between Insmed Incorporated and Fujisawa Pharmaceutical Co., Ltd. (previously filed as Exhibit 10.18 to the Insmed Incorporated s Annual Report on Form 10-K for the year ended December 31, 2003 and incorporated herein by reference).
- 10.19 Form of Change of Control Agreement entered into between Insmed Incorporated and certain of its executive officers.
- 10.20 Insmed Incorporated Officers Bonus Plan
- 21.1 Subsidiaries of Insmed Incorporated (previously filed as Exhibit 21.1 to Insmed Incorporated s Annual Report on Form 10-K for the year ended December 31, 2001 and incorporated herein by reference).
- 23.1 Consent of Ernst & Young LLP (previously filed as Exhibit 21.1 to Insmed Incorporated s Annual Report on Form 10-K for the year ended December 31, 2001).
- 31.1*** Certifications of Geoffrey Allan, Ph.D., Chairman of the Board and Chief Executive Officer of Insmed Incorporated, pursuant to Rules 13a-14(a) and 15d-14(a) promulgated under the Securities Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2003.
- 31.2*** Certifications of Kevin P. Tully C.G.A., Treasurer and Controller (Principal Financial and Accounting Officer) of Insmed Incorporated, pursuant to Rules 13a-14(a) and 15d-14(a) promulgated under the Securities Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2003.
- 32.1 Certification of Geoffrey Allan, Ph.D., Chairman of the Board and Chief Executive Officer of Insmed Incorporated, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2003.
- 32.2 Certification of Kevin P. Tully, Treasurer and Controller (Principal Financial and Accounting Officer) of Insmed Incorporated, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2003.

⁺ The Securities and Exchange Commission has granted confidential treatment with respect to certain information in these exhibits. The confidential portions of these exhibits have been omitted and filed separately with the Securities and Exchange Commission.

^{*} Except as otherwise indicated, the exhibits listed were previously filed as indicated or filed with Insmed Incorporated s Annual Report on Form 10-K or an amendment thereto.

^{**} Confidential treatment has been requested for certain portions of this exhibit. The confidential portions of this exhibit have been omitted and filed separately with the Securities and Exchange Commission.

^{***} Filed herewith.

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