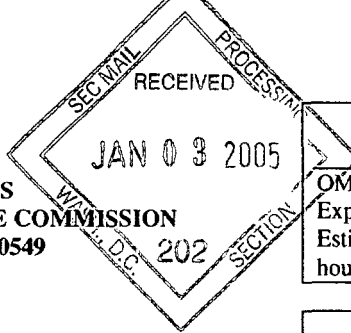


FORM D

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549



1177775

OMB APPROVAL

OMB NUMBER: 3235-0076
Expires: May 31, 2005
Estimated average burden
hours per response.....1.00

FORM D

NOTICE OF SALE OF SECURITIES PURSUANT TO
REGULATION D,
SECTION 4(6), AND/OR
UNIFORM LIMITED OFFERING EXEMPTION

SEC USE ONLY
Prefix | Serial
DATE RECEIVED

Name of Offering (check if this is an amendment and name has changed, and indicate change.)

Series C Preferred Stock

Filing Under (Check box(es) that apply): Rule 504 Rule 505 Rule 506 Section 4(6) ULOE

Type of Filing: New Filing Amendment



05000341

A. BASIC IDENTIFICATION DATA

1. Enter the information requested about the issuer

Name of Issuer (check if this is an amendment and name has changed, and indicate change.)

Infinity Pharmaceuticals, Inc.

Address of Executive Offices (Number and Street, City, State, Zip Code)

780 Memorial Drive, Cambridge, MA 02139

Telephone Number (Including Area Code)

617-453-1000

Address of Principal Business Operations (if different from Executive Offices) (Number and Street, City, State, Zip Code)

Telephone Number (Including Area Code)

Brief Description of Business:

Biotechnology research and development

Type of Business Organization

corporation limited partnership, already formed other (please specify):
 business trust limited partnership, to be formed

PROCESSED

JAN 07 2005

Actual or Estimated Date of Incorporation or Organization 02 01 Actual Estimated

Jurisdiction of Incorporation or Organization: (Enter two-letter U.S. Postal Service abbreviation for State: CN for Canada; FN for other foreign jurisdiction) DE

THOMSON FINANCIAL

GENERAL INSTRUCTIONS

Federal:

Who Must File: All issuers making an offering of securities in reliance on an exemption under Regulation D or Section 4(6), 17 CFR 230.501 et seq. or 15 USC 77d(6).

When To File: A notice must be filed no later than 15 days after the first sale of securities in the offering. A notice is deemed filed with the U.S. Securities and Exchange Commission (SEC) on the earlier of the date it is received by the SEC at the address given below or, if received at that address after the date on which it is due, on the date it was mailed by United States registered or certified mail to that address.

When to File: U.S. Securities and Exchange Commission, 450 Fifth Street, N.W., Washington, D.C. 20549.

Copies Required: Five (5) copies of this notice must be filed with the SEC, one of which must be manually signed. Any copies not manually signed must be photocopies of the manually signed copy or bear typed or printed signatures.

Information Required: A new filing must contain all information requested. Amendments need only report the name of the issuer and offering, any changes thereto, the information requested in Part C, and any material changes from the information previously supplied in Parts A and B. Part E and the Appendix need not be filed with the SEC.

Filing Fee: There is no federal filing fee.

State: This notice shall be used to indicate reliance on the Uniform Limited Offering Exemption (ULOE) for sales of securities in those states that have adopted ULOE and that have adopted this form. Issuers relying on ULOE must file a separate notice with the Securities Administrator in each state where sales are to be, or have been made. If a state requires a payment of a fee as a precondition to the claim for the exemption, a fee in the proper amount shall accompany this form. This notice shall be filed in the appropriate states in accordance with state law. The Appendix to the notice constitutes a part of this notice and must be completed.

ATTENTION

Failure to file notice in the appropriate states will not result in a loss of the federal exemption. Conversely, failure to file the appropriate federal notice will not result in a loss of an available state exemption unless such exemption is predicated on the filing of a federal notice.

A. BASIC IDENTIFICATION DATA

2. Enter the information requested for the following:

- Each promoter of the issuer, if the issuer has been organized within the past five years;
- Each beneficial owner having the power to vote or dispose, or direct the vote or disposition of, 10% or more of a class of equity securities of the issuer;
- Each executive officer and director of corporate issuers and of corporate general and managing partners of partnership issuers; and
- Each general and managing partner of partnership issuers.

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Holtzman, Steven H.

Business or Residence Address (Number and Street, City, State, Zip Code)

c/o Infinity Pharmaceuticals, Inc., 780 Memorial Drive, Cambridge, MA 02139

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Perkins, Adelene Q.

Business or Residence Address (Number and Street, City, State, Zip Code)

c/o Infinity Pharmaceuticals, Inc., 780 Memorial Drive, Cambridge, MA 02139

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Lander, Eric S.

Business or Residence Address (Number and Street, City, State, Zip Code)

c/o Infinity Pharmaceuticals, Inc., 780 Memorial Drive, Cambridge, MA 02139

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Tananbaum, James B.

Business or Residence Address (Number and Street, City, State, Zip Code)

c/o Infinity Pharmaceuticals, Inc., 780 Memorial Drive, Cambridge, MA 02139

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Lee, Patrick

Business or Residence Address (Number and Street, City, State, Zip Code)

c/o Infinity Pharmaceuticals, Inc., 780 Memorial Drive, Cambridge, MA 02139

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Levine, Arnold J.

Business or Residence Address (Number and Street, City, State, Zip Code)

c/o Infinity Pharmaceuticals, Inc., 780 Memorial Drive, Cambridge, MA 02139

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Klausner, Richard D.

Business or Residence Address (Number and Street, City, State, Zip Code)

c/o Infinity Pharmaceuticals, Inc., 780 Memorial Drive, Cambridge, MA 02139

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Evnin, Anthony B.

Business or Residence Address (Number and Street, City, State, Zip Code)

c/o Venrock Associates, 30 Rockefeller Plaza, New York, NY 10112

(Use blank sheet, or copy and use additional copies of this sheet, as necessary.)

A. BASIC IDENTIFICATION DATA

2. Enter the information requested for the following:

- Each promoter of the issuer, if the issuer has been organized within the past five years;
- Each beneficial owner having the power to vote or dispose, or direct the vote or disposition of, 10% or more of a class of equity securities of the issuer;
- Each executive officer and director of corporate issuers and of corporate general and managing partners of partnership issuers; and
- Each general and managing partner of partnership issuers.

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Daniel, D. Ronald

Business or Residence Address (Number and Street, City, State, Zip Code)

c/o Infinity Pharmaceuticals, Inc., 780 Memorial Drive, Cambridge, MA 02139

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Moss, Frank

Business or Residence Address (Number and Street, City, State, Zip Code)

c/o Infinity Pharmaceuticals, Inc., 780 Memorial Drive, Cambridge, MA 02139

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Sato, Vicki L.

Business or Residence Address (Number and Street, City, State, Zip Code)

c/o Infinity Pharmaceuticals, Inc., 780 Memorial Drive, Cambridge, MA 02139

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Needleman, Philip

Business or Residence Address (Number and Street, City, State, Zip Code)

c/o Prospect Venture Partners, 435 Tasso Street, Suite 200, Palo Alto, CA 94301

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Prospect Venture Partners II, L.P.

Business or Residence Address (Number and Street, City, State, Zip Code)

435 Tasso Street, Suite 200, Palo Alto, CA 94301

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Venrock Associates III, L.P.

Business or Residence Address (Number and Street, City, State, Zip Code)

30 Rockefeller Plaza, New York, NY 10112

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Vulcan Ventures Inc.

Business or Residence Address (Number and Street, City, State, Zip Code)

505 Fifth Ave. South, Seattle, WA 98104

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

HBM BioVentures (Cayman) Ltd.

Business or Residence Address (Number and Street, City, State, Zip Code)

Unit 10 Eucalyptus Bldg., Crewe Rd., PO Box 30852 SMB, Grand Cayman

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Advent Private Equity Fund III "A"

Business or Residence Address (Number and Street, City, State, Zip Code)

25 Buckingham Gate, London SW 1E 6LD

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Prospect Venture Partners, L.P.

Business or Residence Address (Number and Street, City, State, Zip Code)

435 Tasso Street, Suite 200, Palo Alto, CA 94301

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Schreiber, Stuart

Business or Residence Address (Number and Street, City, State, Zip Code)

c/o Harvard University, Department of Chemistry and Chemical Biology, 12 Oxford Street, Cambridge, MA 02138

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Amgen Inc.

Business or Residence Address (Number and Street, City, State, Zip Code)

One Amgen Center Drive, Thousand Oaks, CA 91320

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Novartis Pharma AG

Business or Residence Address (Number and Street, City, State, Zip Code)

Lichtstrasse 35, CH-4002, Basel, Switzerland

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Johnson & Johnson Development Corporation

Business or Residence Address (Number and Street, City, State, Zip Code)

One Johnson & Johnson Plaza, New Brunswick, NJ 08933

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

B. INFORMATION ABOUT OFFERING

- | | | |
|---|--|---|
| 1. Has the issuer sold, or does the issuer intend to sell, to non-accredited investors in this offering?..... | Yes
<input type="checkbox"/> | No
<input checked="" type="checkbox"/> |
| Answer also in Appendix, Column 2, if filing under ULOE. | | |
| 2. What is the minimum investment that will be accepted from any individual?..... | \$ _____ | n/a |
| 3. Does the offering permit joint ownership of a single unit?..... | Yes
<input checked="" type="checkbox"/> | No
<input type="checkbox"/> |
| 4. Enter the information requested for each person who has been or will be paid or given, directly or indirectly, any commission or similar remuneration for solicitation of purchasers in connection with sales of securities in the offering. If a person to be listed is an associated person or agent of a broker or dealer registered with the SEC and/or with a state or states, list the name of the broker or dealer. If more than five (5) persons to be listed are associated persons of such a broker or dealer, you may set forth the information for that broker or dealer only. | | |

Full Name (Last name first, if individual)
None.

Business or Residence Address (Number and Street, City, State, Zip Code)

Name of Associated Broker or Dealer

States in which Person Listed Has Solicited or Intends to Solicit Purchasers
(Check "All States" or check individual States) All States

- | | | | | | | | | | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> [AL] | <input type="checkbox"/> [AK] | <input type="checkbox"/> [AZ] | <input type="checkbox"/> [AR] | <input type="checkbox"/> [CA] | <input type="checkbox"/> [CO] | <input type="checkbox"/> [CT] | <input type="checkbox"/> [DE] | <input type="checkbox"/> [DC] | <input type="checkbox"/> [FL] | <input type="checkbox"/> [GA] | <input type="checkbox"/> [HI] | <input type="checkbox"/> [ID] |
| <input type="checkbox"/> [IL] | <input type="checkbox"/> [IN] | <input type="checkbox"/> [IA] | <input type="checkbox"/> [KS] | <input type="checkbox"/> [KY] | <input type="checkbox"/> [LA] | <input type="checkbox"/> [ME] | <input type="checkbox"/> [MD] | <input type="checkbox"/> [MA] | <input type="checkbox"/> [MI] | <input type="checkbox"/> [MN] | <input type="checkbox"/> [MS] | <input type="checkbox"/> [MO] |
| <input type="checkbox"/> [MT] | <input type="checkbox"/> [NE] | <input type="checkbox"/> [NV] | <input type="checkbox"/> [NH] | <input type="checkbox"/> [NJ] | <input type="checkbox"/> [NM] | <input type="checkbox"/> [NY] | <input type="checkbox"/> [NC] | <input type="checkbox"/> [ND] | <input type="checkbox"/> [OH] | <input type="checkbox"/> [OK] | <input type="checkbox"/> [OR] | <input type="checkbox"/> [PA] |
| <input type="checkbox"/> [RI] | <input type="checkbox"/> [SC] | <input type="checkbox"/> [SD] | <input type="checkbox"/> [TN] | <input type="checkbox"/> [TX] | <input type="checkbox"/> [UT] | <input type="checkbox"/> [VT] | <input type="checkbox"/> [VA] | <input type="checkbox"/> [WA] | <input type="checkbox"/> [WV] | <input type="checkbox"/> [WI] | <input type="checkbox"/> [WY] | <input type="checkbox"/> [PR] |

Full name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Name of Associated Broker or Dealer

States in which Person Listed Has Solicited or Intends to Solicit Purchasers
(Check "All States" or check individual States) All States

- | | | | | | | | | | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> [AL] | <input type="checkbox"/> [AK] | <input type="checkbox"/> [AZ] | <input type="checkbox"/> [AR] | <input type="checkbox"/> [CA] | <input type="checkbox"/> [CO] | <input type="checkbox"/> [CT] | <input type="checkbox"/> [DE] | <input type="checkbox"/> [DC] | <input type="checkbox"/> [FL] | <input type="checkbox"/> [GA] | <input type="checkbox"/> [HI] | <input type="checkbox"/> [ID] |
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Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Name of Associated Broker or Dealer

States in which Person Listed Has Solicited or Intends to Solicit Purchasers
(Check "All States" or check individual States) All States

- | | | | | | | | | | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> [AL] | <input type="checkbox"/> [AK] | <input type="checkbox"/> [AZ] | <input type="checkbox"/> [AR] | <input type="checkbox"/> [CA] | <input type="checkbox"/> [CO] | <input type="checkbox"/> [CT] | <input type="checkbox"/> [DE] | <input type="checkbox"/> [DC] | <input type="checkbox"/> [FL] | <input type="checkbox"/> [GA] | <input type="checkbox"/> [HI] | <input type="checkbox"/> [ID] |
| <input type="checkbox"/> [IL] | <input type="checkbox"/> [IN] | <input type="checkbox"/> [IA] | <input type="checkbox"/> [KS] | <input type="checkbox"/> [KY] | <input type="checkbox"/> [LA] | <input type="checkbox"/> [ME] | <input type="checkbox"/> [MD] | <input type="checkbox"/> [MA] | <input type="checkbox"/> [MI] | <input type="checkbox"/> [MN] | <input type="checkbox"/> [MS] | <input type="checkbox"/> [MO] |
| <input type="checkbox"/> [MT] | <input type="checkbox"/> [NE] | <input type="checkbox"/> [NV] | <input type="checkbox"/> [NH] | <input type="checkbox"/> [NJ] | <input type="checkbox"/> [NM] | <input type="checkbox"/> [NY] | <input type="checkbox"/> [NC] | <input type="checkbox"/> [ND] | <input type="checkbox"/> [OH] | <input type="checkbox"/> [OK] | <input type="checkbox"/> [OR] | <input type="checkbox"/> [PA] |
| <input type="checkbox"/> [RI] | <input type="checkbox"/> [SC] | <input type="checkbox"/> [SD] | <input type="checkbox"/> [TN] | <input type="checkbox"/> [TX] | <input type="checkbox"/> [TX] | <input type="checkbox"/> [VT] | <input type="checkbox"/> [VA] | <input type="checkbox"/> [WA] | <input type="checkbox"/> [WV] | <input type="checkbox"/> [WI] | <input type="checkbox"/> [WY] | <input type="checkbox"/> [PR] |

(Use blank sheet, or copy and use additional copies of this sheet, as necessary.)

C. OFFERING PRICE, NUMBER OF INVESTORS, EXPENSES AND USE OF PROCEEDS

b. Enter the difference between the aggregate offering price given in response to Part C - Question 1 and total expenses furnished in response to Part C - Question 4.a. This difference is the "adjusted gross proceeds to the issuer."

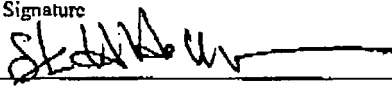
\$ 24,980,006.50

5. Indicate below the amount of the adjusted gross proceeds to the issuer used or proposed to be used for each of the purposes shown. If the amount for any purpose is not known, furnish an estimate and check the box to the left of the estimate. The total of the payments listed must equal the adjusted gross proceeds to the issuer set forth in response to Part C - Question 4.b above.

		Payments to Officers, Directors, & Affiliates		Payments To Others
Salaries and fees.....	<input type="checkbox"/>	\$ _____	<input type="checkbox"/>	\$ _____
Purchase of real estate.....	<input type="checkbox"/>	\$ _____	<input type="checkbox"/>	\$ _____
Purchase, rental or leasing and installation of machinery and equipment.....	<input type="checkbox"/>	\$ _____	<input type="checkbox"/>	\$ _____
Construction or leasing of plant buildings and facilities.....	<input type="checkbox"/>	\$ _____	<input type="checkbox"/>	\$ _____
Acquisition of other business (including the value of securities involved in this offering that may be used in exchange for the assets or securities of another issuer pursuant to a merger).....	<input type="checkbox"/>	\$ _____	<input type="checkbox"/>	\$ _____
Repayment of indebtedness.....	<input type="checkbox"/>	\$ _____	<input type="checkbox"/>	\$ _____
Working capital.....	<input type="checkbox"/>	\$ _____	<input checked="" type="checkbox"/>	\$ <u>24,980,006.50</u>
Other (specify): _____	<input type="checkbox"/>	\$ _____	<input type="checkbox"/>	\$ _____
_____	<input type="checkbox"/>	\$ _____	<input type="checkbox"/>	\$ _____
Column Totals.....	<input checked="" type="checkbox"/>	\$ <u>0</u>	<input checked="" type="checkbox"/>	\$ <u>24,980,006.50</u>
Total Payments Listed (column totals added)				■ \$ <u>24,980,006.50</u>

D. FEDERAL SIGNATURE

The issuer has duly caused this notice to be signed by the undersigned duly authorized person. If this notice is filed under Rule 505, the following signature constitutes an undertaking by the issuer to furnish to the U.S. Securities and Exchange Commission, upon written request of its staff, the information furnished by the issuer to any non-accredited investor pursuant to paragraph (b)(2) of Rule 502.

Issuer (Print or Type) Infinity Pharmaceuticals, Inc.	Signature 	Date December 23, 2004
Name of Signer (Print or Type) Steven H. Holtzman	Title of Signer (Print or Type) Chief Executive Officer	

ATTENTION

Intentional misstatements or omissions of fact constitute federal criminal violations. (See 18 U.S.C. 1001.)