

FORM D Mail Processing Section

AUG 12 2008

Washington DC 101

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

FORM D

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

144 2836

OMB APPROVAL

OMB NUMBER: 3235-0076 Expires: August 31, 2008 Estimated average burden hours per response.....16.00

SEC USE ONLY

Prefix Serial

DATE RECEIVED

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

Subordinated Convertible Promissory Notes

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

Type of Filing: New Filing Amendment

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.)

Mersana Therapeutics, Inc.

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

840 Memorial Drive, Cambridge, MA 02139

Telephone Number (Including Area Code)

617-498-0020

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:

Research, development and commercialization of drug delivery technologies

Type of Business Organization

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

Month Year

Actual or Estimated Date of Incorporation or Organization 01 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



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PROCESSED

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THOMSON REUTERS

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.

Where to File: U.S. Securities and Exchange Commission, 100 F Street, N.E., 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)

Olson, Julie A.

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

c/o Mersana Therapeutics, Inc., 840 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)

Leone, Peter

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

c/o Mersana Therapeutics, Inc., 840 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)

Bacopoulous, Nicholas G.

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

c/o Mersana Therapeutics, Inc., 840 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)

Clarke, C. Boyd

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

c/o Mersana Therapeutics, Inc., 840 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)

Tsang, Joyce

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

c/o ProQuest Investments III, L.P., 90 Nassau Street, Fifth Floor, Princeton, NJ 08542

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

Full Name (Last name first, if individual)

Vogelbaum, Martin

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

c/o Rho Ventures V, L.P., Carnegie Hall Tower, 152 West 57th Street, 23rd Floor, New York, NY 10019

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

Full Name (Last name first, if individual)

Harris, Charles E.

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

c/o Harris & Harris Group, Inc., 111 West 57th Street, Suite 1100, New York, NY 10019

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

Full Name (Last name first, if individual)

Papisov, Mikhail

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

60 Woodside Road, Winchester, MA 01890

(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)

PureTech Ventures LLC

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

222 Berkeley Street, Sutie 1040, Boston, MA 02116

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

Full Name (Last name first, if individual)

Harris & Harris Group, Inc.

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

111 West 57th Street, Suite 1100, New York, NY 10019

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

Full Name (Last name first, if individual)

Fidelity BioSciences Limited Partnership

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

82 Devonshire Street, Boston, MA 02109

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

Full Name (Last name first, if individual)

ProQuest Investments III, L.P.

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

90 Nassau Street, Fifth Floor, Princeton, NJ 08542

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

Full Name (Last name first, if individual)

Rho Ventures V, L.P.

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

Carnegie Hall Tower, 152 West 57th Street, 23rd Floor, New York, NY 10019

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

Full Name (Last name first, if individual)

Knight, Stephen C.

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

c/o Mersana Therapeutics, Inc., 840 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)

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 | No |
| | <input type="checkbox"/> | <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 | No |
| | <input checked="" type="checkbox"/> | <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

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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"/> [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]

(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."

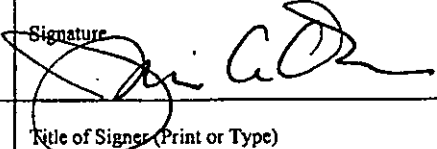
\$ 3,980,000

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>3,980,000</u>
Other (specify): _____	<input type="checkbox"/>	\$ _____	<input type="checkbox"/>	\$ _____
_____	<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>3,980,000</u>
Total Payments Listed (column totals added)				■ \$ <u>3,980,000</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) Mersana Therapeutics, Inc.	Signature 	Date August 8, 2008
Name of Signer (Print or Type) Julie A. Olson	Title of Signer (Print or Type) President and Chief Executive Officer	

ATTENTION

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

END