FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

| OMB APPROVAL             |           |  |  |  |  |  |  |  |  |
|--------------------------|-----------|--|--|--|--|--|--|--|--|
| OMB Number:              | 3235-0287 |  |  |  |  |  |  |  |  |
| Estimated average burden |           |  |  |  |  |  |  |  |  |
| haura nar raananaa       | 0.5       |  |  |  |  |  |  |  |  |

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

| 1. Name at MICAT (Last) C/O ENZ 685 ROU (Street)                                 | ENZI<br>3. Dat<br>11/1   | 2. Issuer Name and Ticker or Trading Symbol ENZON PHARMACEUTICALS INC [ ENZN ]  3. Date of Earliest Transaction (Month/Day/Year) 11/11/2004  4. If Amendment, Date of Original Filed (Month/Day/Year) |   |          |          |   |        |        |                        |  | ck all appl Direct Office below dividual or | r 10% Owner (give title Other (specify |  | wner<br>specify<br>pplicable                                |   |  |  |  |                         |  |  |
|--|--|---|---|----------|----------|---|--------|--------|------------------------|--|---|--|--|---|---|--|--|--|-------------------------|--|--|
| , ,  | BRIDGEWATER NJ 08807   |   |   |          |          |   |        |        |                        |  |   |  |  |   |   |  | Form filed by More than One Reporting Person |  |                         |  |  |
| Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned |  |   |   |          |          |   |        |        |                        |  |   |  |  |   |   |  |  |  |                         |  |  |
| 1. Title of  | ction<br>ay/Year)  | ion 2A. Deemed Execution Date,  |   |          |          | 3. 4. Secur<br>Transaction<br>Code (Instr. 8) |        |        | quired                 | (A) or   | 5. Amo<br>Securit<br>Benefic                | unt of<br>ies<br>cially                | Fori<br>(D) (<br>Indi                  | m: Direct<br>or<br>rect (I)                                 | 7. Nature<br>of Indirect<br>Beneficial<br>Ownership<br>(Instr. 4) |  |  |  |                         |  |  |
|  |  |   |   |          |          |   | Code   | v      | Amoun                  | mount (A) or (D)   |   | Price                                  | Report<br>Transa                       | Following<br>Reported<br>Transaction(s)<br>(Instr. 3 and 4) |   | u. 4)  | (mstr. 4)                                    |  |                         |  |  |
| Common   | Stock(1)   |   | 2004                                      | 004      |          |   | A      |        | 1,566 <sup>(2)</sup> A |  | \$ <mark>0</mark>                           | 1,566                                  |  |   | D   |  |  |  |                         |  |  |
|  | Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) |   |   |          |          |   |        |        |                        |  |   |  |  |   |   |  |  |  |                         |  |  |
|  | 2.<br>Conversion<br>or Exercise<br>Price of<br>Derivative<br>Security  | 3. Transaction<br>Date<br>(Month/Day/Year)  | 3A. Dee<br>Execution<br>if any<br>(Month/ | on Date, | Code (In | ransaction<br>Code (Instr.                    |        | n of E |                        | 6. Date Exercisable and<br>Expiration Date<br>(Month/Day/Year) |   |  | and<br>of<br>es<br>ing<br>ve<br>(Instr |   | 3. Price<br>of<br>Derivative<br>Security<br>(Instr. 5)            | 9. Number<br>derivative<br>Securities<br>Beneficiall<br>Owned<br>Following<br>Reported<br>Transactio<br>(Instr. 4) | у  | Ownership<br>Form:<br>Direct (D)<br>or Indirect<br>(I) (Instr.<br>4) | Beneficial<br>Ownership |  |  |
|  |  |   |   |          | Code     | v   | (A)    | (D)    | Date<br>Exercisable    |  | piration<br>te                              | Title                                  | Amo<br>or<br>Num<br>of<br>Shar         | nber  |   |  |  |  |                         |  |  |
| Common<br>Stock<br>(Right to<br>Buy) <sup>(3)</sup>                              | \$15.96  | 11/11/2004  |   |          | A        |   | 20,000 |        | (4)                    | 11   | /11/2014                                    | Commor<br>Stock                        | 20,                                    | 000   | \$0   | 20,000   |  | D  |                         |  |  |

## **Explanation of Responses:**

- 1. Restricted stock granted by Enzon Pharmaceuticals, Inc. ("Enzon") pursuant to Enzon's 2001 Incentive Stock Plan and qualified under Rule 16b-3(d).
- 2. Of the 1,566 shares granted, 522 will vest on November 11, 2005, 522 will vest on November 11, 2006 and the remaining 522 will vest on November 11, 2007 so long as Mr. Micati is a member of the board on the above dates.
- 3. Stock option granted by Enzon pursuant to Enzon's 2001 Incentive Stock Plan and qualified under Rule 16b-3(d).
- 4. Of the 20,000 options granted, 6,667 will vest on November 11, 2005, 6,667 will vest on November 11, 2006 and the remaining 6,666 will vest on November 11, 2007 so long as Mr. Micati is a member of the board on the above dates.

/s/ Gary A. Smith (Attorney-in- 11/15/2004 Fact)

\*\* Signature of Reporting Person

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- \* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.