

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, DC 20549**

**SCHEDULE 14A  
(Rule 14A-101)**

**PROXY STATEMENT PURSUANT TO SECTION 14(a)  
OF THE SECURITIES EXCHANGE ACT OF 1934**

Filed by the Registrant   
Filed by a Party other than the Registrant

Check the appropriate box:

- Preliminary Proxy Statement
- Confidential, For Use of the Commission Only (as permitted by Rule 14a-6(e)(2))
- Definitive Proxy Statement
- Definitive Additional Materials
- Soliciting Materials Pursuant to Section 240.14a-12

**ENZON PHARMACEUTICALS, INC.**  
(Name of Registrant as Specified in its Charter)

(Name of Person(s) Filing Proxy Statement, if other than the Registrant)

Payment of Filing Fee (Check the appropriate box):

- No fee required.
- Fee computed on table below per Exchange Act Rules 14a-6(i)(1) and 0-11.

- 1) Title of each class of securities to which the transaction applies:
  
- 2) Aggregate number of securities to which transaction applies:
  
- 3) Per unit price or other underlying value of transaction computed pursuant to Exchange Act Rule 0-11 (set forth the amount on which the filing fee is calculated and state how it was determined):
  
- 4) Proposed maximum aggregate value of transaction:
  
- 5) Total fee paid:

Fee paid previously with preliminary materials.

Check box if any part of the fee is offset as provided by Exchange Act Rule 0-11(a)(2) and identify the filing for which the offsetting fee was paid previously. Identify the previous filing by registration statement number, or the Form or Schedule and the date of its filing.

- 1) Amount Previously Paid:
  
  - 2) Form, Schedule or Registration Statement No.:
  
  - 3) Filing Party:
  
  - 4) Date Filed:
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Enzon Pharmaceuticals, Inc. issued the following press release on December 22, 2009 related to its upcoming special meeting of stockholders.

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**ENZON SETS DATE OF SPECIAL MEETING OF STOCKHOLDERS  
TO APPROVE SALE OF SPECIALTY PHARMACEUTICAL BUSINESS**

*-- Announces Expiration of Waiting Period Under HSR Act --*

BRIDGEWATER, NJ – December 22, 2009 – Enzon Pharmaceuticals, Inc. (Nasdaq: ENZN) ("Enzon") announced today that it has set Wednesday, January 27, 2010 as the date of the special meeting of stockholders to vote on the proposed sale of its specialty pharmaceutical business to the sigma-tau Group. Stockholders of record at the close of business on December 7, 2009 are entitled to vote at the special meeting, which will be held at the Helmsley Park Lane Hotel in New York, New York at 11:00 a.m. EST. Enzon's proxy materials are being distributed to all stockholders entitled to vote at the meeting.

Enzon also announced that the waiting period under the Hart-Scott-Rodino Antitrust Improvements Act of 1976, as amended ("HSR Act"), applicable to the acquisition expired as of 11:59 p.m. EST on Monday, December 21, 2009, with no action by either the Federal Trade Commission or the U.S. Department of Justice.

The expiration of the waiting period under the HSR Act satisfies one of the conditions necessary for the consummation of the acquisition. Enzon presently expects to close the acquisition promptly following the special meeting and the receipt of approval of a majority of Enzon's outstanding shares of common stock.

As previously announced, Enzon has entered into a definitive agreement to sell its specialty pharmaceutical business to the sigma-tau Group for \$300 million plus an additional amount of up to \$27 million based on success milestones. Enzon will also receive royalties of 5 to 10 percent on incremental net sales above a 2009 baseline amount from Enzon's four marketed specialty pharmaceutical products through 2014.

**About Enzon**

Enzon Pharmaceuticals, Inc is a biopharmaceutical company dedicated to the development, manufacturing, commercialization of important medicines for patients with cancer and other life-threatening conditions. Enzon has a portfolio of four marketed products, Oncaspar®, DepoCyt®, Abelcet® and Adagen®. The Company's drug development programs utilize several cutting-edge approaches, including its industry-leading PEGylation technology platform used to create product candidates with benefits such as reduced dosing frequency and less toxicity. Enzon's PEGylation technology was used to develop two of its products, Oncaspar and Adagen, and has created a royalty revenue stream from licensing partnerships for other products developed using the technology. Enzon also engages in contract manufacturing for several pharmaceutical companies to broaden the Company's revenue base. Further information about Enzon and this press release can be found on the Company's web site at [www.enzon.com](http://www.enzon.com).

**Forward Looking Statements**

*There are forward-looking statements contained herein, which can be identified by the use of forward-looking terminology such as the words "believes," "expects," "may," "will," "should," "potential," "anticipates," "plans" or "intends" and similar expressions. Such forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause actual results, events or developments to be materially different from the future results, events or developments indicated in such forward-looking statements. Such factors include, but are not limited to the timing, success and cost of clinical studies; the ability to obtain regulatory approval of products, market acceptance of, and continuing demand for, Enzon's products and the impact of competitive products and pricing. A more detailed discussion of these and other factors that could affect results is contained in our filings with the U.S. Securities and Exchange Commission, including our annual report on Form 10-K for the period ended December 31, 2008. These factors should be considered carefully and readers are cautioned not to place undue reliance on such forward-looking statements. No assurance can be given that the future results covered by the forward-looking statements will be achieved. All information in this press release is as of the date of this press release and Enzon does not intend to update this information.*