

SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

SCHEDULE 13D

Under the Securities Exchange Act of 1934  
(Amendment No. 7)\*

Enzon Pharmaceuticals, Inc.  
(Name of Issuer)

Common Stock, Par Value \$0.01  
(Title of Class of Securities)

293904108  
(CUSIP Number)

Keith Schaitkin, Esq.  
Icahn Capital LP  
767 Fifth Avenue, 47<sup>th</sup> Floor  
New York, New York 10153  
(212) 702-4388  
(Name, Address and Telephone Number of Person Authorized to  
Receive Notices and Communications)

November 27, 2012  
(Date of Event which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of Section 240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box //.

NOTE: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See Rule 13d-7 for other parties to whom copies are to be sent.

\*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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## SCHEDULE 13D

### Item 1. Security and Issuer

This statement constitutes Amendment No. 7 to the Schedule 13D relating to the shares of Common Stock, par value \$0.01 per share (the "Shares"), issued by Enzon Pharmaceuticals, Inc., a Delaware corporation (the "Issuer"), and amends the Schedule 13D relating to the Shares filed on March 14, 2008 and amended by Amendment Nos. 1 through 6 thereto (as amended, the "Original 13D"), on behalf of the Reporting Persons (as defined in the Original 13D). Capitalized terms used herein and not otherwise defined have the respective meanings ascribed thereto in the Original 13D.

### Item 4. Purpose of Transaction

Item 4 of the Original 13D is hereby amended by adding the following:

The Reporting Persons have informed the Issuer that they wish to discuss the operations and direction of the Issuer and the Issuer's plans to manage expenses and preserve value for shareholders. Following those discussions, the Reporting Persons expect to form a view on the appropriate course of action in respect of the Issuer.

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SIGNATURE

After reasonable inquiry and to the best of each of the undersigned knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

Dated: November 28, 2012

HIGH RIVER LIMITED PARTNERSHIP

By: Hopper Investments LLC, general partner

By: /s/ Edward E. Mattner

Name: Edward E. Mattner

Title: Authorized Signatory

HOPPER INVESTMENTS LLC

By: /s/ Edward E. Mattner

Name: Edward E. Mattner

Title: Authorized Signatory

BARBERRY CORP.

By: /s/ Edward E. Mattner

Name: Edward E. Mattner

Title: Authorized Signatory

ICAHN PARTNERS MASTER FUND LP

By: /s/ Edward E. Mattner

Name: Edward E. Mattner

Title: Authorized Signatory

ICAHN PARTNERS MASTER FUND II LP

By: /s/ Edward E. Mattner

Name: Edward E. Mattner

Title: Authorized Signatory

ICAHN PARTNERS MASTER FUND III LP

By: /s/ Edward E. Mattner

Name: Edward E. Mattner

Title: Authorized Signatory

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ICAHN OFFSHORE LP

By: /s/ Edward E. Mattner  
Name: Edward E. Mattner  
Title: Authorized Signatory

ICAHN PARTNERS LP

By: /s/ Edward E. Mattner  
Name: Edward E. Mattner  
Title: Authorized Signatory

ICAHN ONSHORE LP

By: /s/ Edward E. Mattner  
Name: Edward E. Mattner  
Title: Authorized Signatory

ICAHN CAPITAL LP

By: IPH GP LLC, its general partner  
By: Icahn Enterprises Holdings L.P., its sole member  
By: Icahn Enterprises G.P. Inc., its general partner

By: /s/ SungHwan Cho  
Name: SungHwan Cho  
Title: Chief Financial Officer

IPH GP LLC

By: Icahn Enterprises Holdings L.P., its sole member  
By: Icahn Enterprises G.P. Inc., its general partner

By: /s/ SungHwan Cho  
Name: SungHwan Cho  
Title: Chief Financial Officer

ICAHN ENTERPRISES HOLDINGS L.P.

By: Icahn Enterprises G.P. Inc., its general partner

By: /s/ SungHwan Cho  
Name: SungHwan Cho  
Title: Chief Financial Officer

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ICAHN ENTERPRISES G.P. INC.

By: /s/ SungHwan Cho  
Name: SungHwan Cho  
Title: Chief Financial Officer

BECKTON CORP.

By: /s/ Edward E. Mattner  
Name: Edward E. Mattner  
Title: Authorized Signatory

/s/ Carl C. Icahn  
CARL C. ICAHN