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UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, DC 20549

SCHEDULE 13G  
(Amendment No. 3)\*

Under the Securities Exchange Act of 1934

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**Harpoon Therapeutics, Inc.**

(Name of Issuer)

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**Common Stock, \$0.0001 par value per share**

(Title of Class of Securities)

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**41358P106**

(CUSIP Number)

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**December 31, 2022**

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)  
 Rule 13d-1(c)  
 Rule 13d-1(d)

\*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 the disclosures provided in a prior cover page.

The information required in 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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1	NAME OF REPORTING PERSONS OrbiMed Capital LLC	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input type="radio"/> (b) <input type="radio"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 712,290
	6	SHARED VOTING POWER 0
	7	SOLE DISPOSITIVE POWER 712,290
	8	SHARED DISPOSITIVE POWER 0
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 712,290	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES <input type="radio"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 2.1%	
12	TYPE OF REPORTING PERSON IA	

1	NAME OF REPORTING PERSONS OrbiMed Advisors LLC	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input type="radio"/> (b) <input type="radio"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 0
	6	SHARED VOTING POWER 804,206
	7	SOLE DISPOSITIVE POWER 0
	8	SHARED DISPOSITIVE POWER 804,206
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 804,206	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES <input type="radio"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 2.4%	
12	TYPE OF REPORTING PERSON IA	

1	NAME OF REPORTING PERSONS OrbiMed Capital GP VII LLC	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input type="radio"/> (b) <input type="radio"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 0
	6	SHARED VOTING POWER 621,218
	7	SOLE DISPOSITIVE POWER 0
	8	SHARED DISPOSITIVE POWER 621,218
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 621,218	
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES <input type="radio"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 1.9%	
12	TYPE OF REPORTING PERSON OO	

**Item 1. (a) Name of Issuer:**

Harpoon Therapeutics, Inc.

**(b) Address of Issuer's Principal Executive Offices:**

131 Oyster Point Blvd.

Suite 300

South San Francisco, CA 94080

**Item 2. (a) Name of Person Filing:**

OrbiMed Capital LLC

OrbiMed Advisors LLC

OrbiMed Capital GP VII LLC

**(b) Address of Principal Business Office:**

601 Lexington Avenue, 54th Floor

New York, NY 10022

**(c) Citizenship:**

Please refer to Item 4 on each cover page for each Reporting Person.

**(d) Title of Class of Securities:**

Common Stock, \$0.0001 par value per share

**(e) CUSIP No.:**

41358P106

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**Item 3.**

OrbiMed Capital GP VII LLC (“GP VII”) is the general partner of OrbiMed Private Investments VII, LP. OrbiMed Advisors LLC (“Advisors”) and OrbiMed Capital LLC (“Capital”) are investment advisors in accordance with ss.240.13d-1(b)(1)(ii)(E) and Advisors is the managing member of GP VII.

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**Item 4. Ownership:**

Information with respect to the Reporting Person's ownership as of December 31, 2022 is incorporated by reference to items (5) - (9) and (11) of the cover page for the Reporting Person.

**Item 5. Ownership of Five Percent or Less of a Class.**

If this statement is being filed to report the fact that as of the date hereof the Reporting Person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following .

**Item 6. Ownership of More Than Five Percent on Behalf of Another Person.**

Not Applicable.

**Item 7. Identification and Classification of the Subsidiary which Acquired the Security Being Reported on by the Parent Holding Company or Control Person.**

Not Applicable.

**Item 8. Identification and Classification of Members of the Group.**

Not Applicable.

**Item 9. Notice of Dissolution of Group.**

Not Applicable.

**Item 10. Certification.**

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

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SIGNATURES

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Dated: February 14, 2023

**OrbiMed Advisors LLC**

By: /s/ Carl L. Gordon

Name: Carl L. Gordon

Title: Member

**OrbiMed Capital LLC**

By: /s/ Carl L. Gordon

Name: Carl L. Gordon

Title: Member

**OrbiMed Capital GP VII LLC**

By: OrbiMed Advisors LLC, its Managing Member

By: /s/ Carl L. Gordon

Name: Carl L. Gordon

Title: Member of OrbiMed Advisors LLC

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**EXHIBIT A**  
**JOINT FILING AGREEMENT**

The undersigned hereby agree that the Statement on this Schedule 13G dated December 31, 2022 (the "Schedule 13G"), with respect to the Common Stock, par value \$0.0001 per share, of Harpoon Therapeutics, Inc. is filed on behalf of each of us pursuant to and in accordance with the provisions of Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended, and that this Agreement shall be included as an Exhibit to this Schedule 13G. Each of the undersigned agrees to be responsible for the timely filing of the Schedule 13G, and for the completeness and accuracy of the information concerning itself contained therein. This Agreement may be executed in any number of counterparts, all of which taken together shall constitute one and the same instrument.

IN WITNESS WHEREOF, the undersigned have executed this Agreement as of February 14, 2023.

**OrbiMed Advisors LLC**

By: /s/ Carl L. Gordon

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Name: Carl L. Gordon

Title: Member

**OrbiMed Capital LLC**

By: /s/ Carl L. Gordon

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Name: Carl L. Gordon

Title: Member

**OrbiMed Capital GP VII LLC**

By: OrbiMed Advisors LLC, its Managing Member

By: /s/ Carl L. Gordon

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Name: Carl L. Gordon

Title: Member of OrbiMed Advisors LLC

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