IRONWOOD PHARMACEUTICALS INC Form SC 13G/A February 13, 2017

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, DC 20549 SCHEDULE 13G/A

Under the Securities Exchange Act of 1934

(Amendment No. 2)*

Ironwood Pharmaceuticals, Inc. (Name of Issuer)

Common Stock

(Title of Class of Securities)

46333X108 (CUSIP Number)

December 31, 2016 (Date of Event Which Requires Filing of this Statement)

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

x Rule 13d-1(b)
o Rule 13d-1(c)
o 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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SCHEDULE 13G/A

CUSIP No. 46333X108

IA

NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY) 1 OrbiMed Advisors LLC CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) 2 (a) o (b) o SEC USE ONLY 3 CITIZENSHIP OR PLACE OF ORGANIZATION 4 Delaware SOLE VOTING POWER 5 NUMBER OF 0 **SHARES** SHARED VOTING POWER **BENEFICIALLY** 6 OWNED BY 2,524,000 **EACH REPORTING** SOLE DISPOSITIVE POWER **PERSON** 7 WITH SHARED DISPOSITIVE POWER 8 2,524,000 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 9 2,524,000 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN o SHARES (See Instructions) 10 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 11 1.73% TYPE OF REPORTING PERSON (See Instructions) 12

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SCHEDULE 13G/A

CUSIP No. 46333X108

NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY) 1 OrbiMed Capital LLC CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) 2 (a) o (b) o SEC USE ONLY 3 CITIZENSHIP OR PLACE OF ORGANIZATION 4 Delaware **SOLE VOTING POWER** 5 NUMBER OF 0 **SHARES** SHARED VOTING POWER **BENEFICIALLY** 6 OWNED BY 4,717,300 **EACH** SOLE DISPOSITIVE POWER **REPORTING** 7 **PERSON** 0 WITH SHARED DISPOSITIVE POWER 8 4,717,300 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 9 4,717,300 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN o SHARES (See Instructions) 10 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 11 3.23% TYPE OF REPORTING PERSON (See Instructions) 12 IA

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SCHEDULE 13G/A

CUSIP No. 46333X108

HC

NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY) 1 Samuel D. Isaly CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) 2 (a) o (b) o SEC USE ONLY 3 CITIZENSHIP OR PLACE OF ORGANIZATION 4 **United States** SOLE VOTING POWER 5 NUMBER OF 0 **SHARES** SHARED VOTING POWER **BENEFICIALLY** 6 OWNED BY 7.241.300 **EACH REPORTING** SOLE DISPOSITIVE POWER **PERSON** 7 WITH SHARED DISPOSITIVE POWER 8 7,241,300 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 9 7,241,300 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN o SHARES (See Instructions) 10 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 11 4.95% TYPE OF REPORTING PERSON (See Instructions) 12

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Item 1.(a) Name of Issuer:		
Ironwood Pharmaceuticals, Inc		
	(b) Address of Issuer's Prin	ncipal Executive Offices:
301 Binney Street		
Cambridge, MA 02142		
United States		
Item 2.	(a) Name	e of Person Filing:
OrbiMed Advisors LLC		
OrbiMed Capital LLC		
Samuel D. Isaly		
	(b) Address of Princ	ipal Business Office:
601 Lexington Avenue, 54th F	oor	
New York, NY 10022		
	(c)	Citizenship:
Please refer to Item 4 on each c	over sheet for each filing person.	
	(d) Title of C	lass of Securities:
Common Stock		
	(e)	CUSIP No.:
46333X108		

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Item 3. OrbiMed Advisors LLC and OrbiMed Capital LLC are investment advisors in accordance with ss.240.13d-1(b)(1)(ii)(E). Samuel D. Isaly is a control person in accordance with ss.240.13d-1(b)(1)(ii)(G).

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Item 4. Ownership:		
Please see Items 5 - 9 and 11 fo	or each cover sheet for each filing.	
Item 5. Ownership of Five Po	ercent or Less of a Class.	
	o report the fact that as of the date here 5 percent of the class of securities, chec	of the reporting person has ceased to be the ck the following [X].
Item 6. Ownership of More	Than Five Percent on Behalf of Anot	her Person.
Not Applicable.		
Item 7. Identification and Cla the Parent Holding Company		acquired the Security Being Reported on by
Not Applicable.		
Item 8. Identification and Cla	ssification 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 belie	f, 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 13, 2017

OrbiMed Advisors LLC

By: Samuel D. Isaly

Name: Samuel D. Isaly Title: Managing Member

OrbiMed Capital LLC

By: Samuel D. Isaly

Name: Samuel D. Isaly
Title: Managing Member

Samuel D. Isaly

Samuel D. Isaly

Name: Samuel D. Isaly

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EXHIBIT A

JOINT FILING AGREEMENT

The undersigned hereby agree that the Statement on this Schedule 13G/A dated February 13, 2017 (the "Schedule 13G/A"), with respect to the Common Stock, par value \$0.001 per share, of Ironwood Pharmaceuticals, 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/A. Each of the undersigned agrees to be responsible for the timely filing of the Schedule 13G/A, 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 13, 2017.

OrbiMed Advisors LLC

By: Samuel D. Isaly

Name: Samuel D. Isaly Title: Managing Member

OrbiMed Capital LLC

By: Samuel D. Isaly

Name: Samuel D. Isaly Title: Managing Member

Samuel D. Isaly

Samuel D. Isaly

Name: Samuel D. Isaly

The Statement on this Schedule 13G/A dated February 13, 2017 with respect to the Common Stock of Ironwood Pharmaceuticals, Inc. is filed by Samuel D. Isaly in accordance with the provisions of Rule 13d-1(b) and Rule

13d-1(k), respectively, as control person (HC) of OrbiMed Advisors LLC and OrbiMed Capital LLC.

OrbiMed Advisors LLC and OrbiMed Capital LLC file this statement on Schedule 13G/A in accordance with the provisions of Rule 13d-1(b) and Rule 13d-1(k), respectively, as investment advisors (IA).