Bacterin International Holdings, Inc. Form SC 13G/A April 10, 2014
UNITED STATES
SECURITIES AND EXCHANGE COMMISSION Washington, DC 20549
SCHEDULE 13G/A
Under the Securities Exchange Act of 1934
(Amendment No. 1)*
Bacterin International Holdings, Inc. (Name of Issuer)
Common Stock (Title of Close of Securities)
(Title of Class of Securities)
05644R101 (CUSIP Number)
March 31, 2014 (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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CUSIP No. 05644R101

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 5,631,579 **EACH REPORTING** SOLE DISPOSITIVE POWER **PERSON** 7 WITH SHARED DISPOSITIVE POWER 8 5,631,579 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 9 5,631,579 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 10.10% TYPE OF REPORTING PERSON (See Instructions) 12

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CUSIP No. 05644R101

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 5,631,579 **EACH REPORTING** SOLE DISPOSITIVE POWER **PERSON** 7 WITH SHARED DISPOSITIVE POWER 8 5,631,579 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 9 5,631,579 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 10.10% TYPE OF REPORTING PERSON (See Instructions) 12

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Item 1. (a) Name of Issuer:		
Bacterin International Holdings, Inc.		
	(b) Address of Issuer's Prin	ncipal Executive Offices:
600 Cruiser Lane		
Belgrade, Montana 59714		
Item 2.	(a) Nam	e of Person Filing:
OrbiMed Advisors LLC ("Advisors"	)	
Samuel D. Isaly ("Isaly")		
	(b) Address of Princ	ipal Business Office:
601 Lexington Avenue, 54th Floor		
New York, NY 10022		
	(c)	Citizenship:
Please refer to Item 4 on each cover s	sheet for each filing person.	
	(d) Title of C	lass of Securities:
Common Stock		
	(e)	CUSIP No.:
05644R101		

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#### Item 3.

Advisors is an investment adviser in accordance with 240.13d-1(b)(1)(ii)(E) and serves as the investment manager of Royalty Opportunities S.ar.1 ("ROS"), which beneficially owns the shares of the Issuer's Common Stock ("Shares"), as detailed in Item 6. Isaly is the Managing Member of Advisors and a control person in accordance with 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 P	ercent or Less of a Class.	
Not Applicable.		
Item 6. Ownership of More	<b>Γhan Five Percent on Behalf of Ano</b>	ther Person.
877,193 Shares. Isaly is the Ma	•	s 4,754,386 Shares and a warrant to purchase pasis of these relationships, Advisors and Isaly wined by ROS.
Item 7. Identification and Clathe Parent Holding Company	<del>-</del>	Acquired the Security Being Reported on by
Not Applicable.		
Item 8. Identification and Cla	assification 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: April 10, 2014

### ORBIMED ADVISORS LLC

By: Samuel D. Isaly

Name: Samuel D. Isaly Title: Managing Member

By: 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 April 10, 2014 (the "Schedule 13G/A"), with respect to the Common Stock, par value of \$0.000001 per share, of Bacterin International Holdings, 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 April 10, 2014.

#### ORBIMED ADVISORS LLC

By: Samuel D. Isaly

Name: Samuel D. Isaly Title: Managing Member

By: Samuel D. Isaly

Name: Samuel D. Isaly

The Statement on this Schedule 13G/A dated April 10, 2014 with respect to the Common Stock, par value of \$0.000001 per share, of Bacterin International Holdings, 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.

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

manager of Royalty Opportunities S. àr.l, which beneficially owns the shares of Bacterin International Holdings, Inc., as detailed in Item 6.