

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP**

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL	
OMB Number:	3235-0287
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1. Name and Address of Reporting Person* <u>HOLMES DARREL LEE</u>  (Last) (First) (Middle) <u>664 CRUISER LANE</u>  (Street) <u>BELGRADE MT 59714</u>  (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>Bacterin International Holdings, Inc. [ BONE ]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <p style="text-align: center;"><b>COO</b></p>
	3. Date of Earliest Transaction (Month/Day/Year) <u>06/10/2014</u>	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	06/10/2014		S		50,000	D	\$0.74 <sup>(1)</sup>	11,656	D	

**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Employee Stock Option	\$2.36	07/18/2014		D		70,000		(3)	03/27/2022	Common Stock	70,000	(2)	0	D	
Employee Stock Option	\$1.65	07/18/2014		D		100,000		(4)	09/06/2022	Common Stock	100,000	(2)	0	D	
Employee Stock Option	\$1.34	07/18/2014		D		30,000		(5)	10/09/2016	Common Stock	30,000	(2)	0	D	
Employee Stock Option	\$1.5	07/18/2014		D		18,287			12/29/2009	12/29/2018	Common Stock	18,287	(2)	0	D
Employee Stock Option	\$1.5	07/18/2014		D		11,712			12/29/2010	12/29/2018	Common Stock	11,712	(2)	0	D
Employee Stock Option	\$1.5	07/18/2014		D		15,000			12/29/2011	12/29/2018	Common Stock	15,000	(2)	0	D
Employee Stock Option	\$1.5	07/18/2014		D		15,000			12/29/2012	12/29/2018	Common Stock	15,000	(2)	0	D
Employee Stock Option	\$1.5	07/18/2014		D		15,000			12/29/2013	12/29/2018	Common Stock	15,000	(2)	0	D

**Explanation of Responses:**

- The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$0.73 to \$0.76, inclusive. The reporting person undertakes to provide to Bacterin International Holdings, Inc. ("BONE"), any shareholder of BONE, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote.
- The option was canceled by mutual agreement of the reporting person and the issuer. The reporting person received \$1.00 as consideration for the cancellation of all options listed in this Form 4.
- The option provided for vesting in five equal annual installments beginning March 27, 2013.
- The option provided for vesting in three equal annual installments beginning September 6, 2013.
- The option provided for vesting in two equal annual installments beginning 10/9/07.

/s/ Darrel Holmes

07/21/2014

\*\* Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

\* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

\*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.