## FORM 4

obligations may continue. See Instruction 1(b).

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
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Check this box if no longer subject to Section 16. Form 4 or Form 5	RSHIP
Section 10. Form 4 or Form 5	

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

Name and Address of Reporting Person*     COOK GUY S					2. Issuer Name and Ticker or Trading Symbol Bacterin International Holdings, Inc. [ BONE ]										neck all ap	nip of Reportir oplicable) ector	ig Persoi X	n(s) to Is	
(Last) (First) (Middle) 600 CRUISER LANE				3. Date of Earliest Transaction (Month/Day/Year) 05/10/2012											Officer (give title below)  CEO  Other (specify below)				
(Street) BELGRA			59714 Zip)		4. If	1. If Amendment, Date of Original Filed (Month/Day/Year)						6. I Lin	e) X For For	dual or Joint/Group Filing (Check Applicable  Form filed by One Reporting Person  Form filed by More than One Reporting  Person					
		Tabl	e I - Nor	า-Deriv	ative	Sec	curitie	es Ac	quired,	Dis	posed o	f, or I	Bene	ficia	lly Own	ed			
			2. Transaction Date (Month/Day/Ye		Execution Date,		Code (	Transaction Disposed Of (Code (Instr. 5)			es Acquired (A) or Of (D) (Instr. 3, 4 and			5. Amount of Securities Beneficially Owned Following Reported		ership Direct ndirect r. 4)	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A (D	) or )	Price	Trans	saction(s) . 3 and 4)			(Instr. 4)
Common Stock			05/10	05/10/2012				P		10,000		A	\$1.5	(1) 12	,857,137	Ι	)		
		Та	able II - I								sed of, onvertib				Owned	ł			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	te Execution Date, if any (Month/Day/Year)    Month/Day/Year   Execution Date, if any (Month/Day/Year)   Truck (Month/Day/Year)   S		Transa Code (	Instr.	Str. Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)  Date Exercisable Date Exercisable Date		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)  Amoun or Numbe of Title Shares		ount	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owi For Dire or Ii (I) (I	nership m: ect (D) ndirect Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

## **Explanation of Responses:**

1. The price reported in Column 4 is a weighted average price. These shares were purchased in multiple transactions at prices ranging from \$1.4999 to \$1.50, 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 purchased at each separate price within the range set forth in this footnote.

/s/ Guy Cook

\*\* Signature of Reporting Person

Date

05/10/2012

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

- $^{\star}$  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.