FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT	OF CHAN	IGES IN B	ENEFICIAL	OWNERSHIP

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	3235-0287
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	onse: 0.5
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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

1. Name and Address of Reporting Person*					2. Issuer Name and Ticker or Trading Symbol Bacterin International Holdings, Inc. [BONE									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
COOK GUY S]												0% Owner	
(Last) (First) (Middle) 246 PAINTED HILLS ROAD				3. Date of Earliest Transaction (Month/Day/Year) 04/29/2014										er (give title w)		ther (specify elow)			
(Street) BOZEMAN MT 59715			4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting				_i e		
(City)	(St	ate) (Zip)												Pers		e triair Orie	Reporting	
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 an					ities icially d Following	6. Ownersl Form: Dire (D) or Indir (I) (Instr. 4)	ct of Indir ect Benefic Owners	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
						Code	v	Amount	(A) or (D)	Price		Transaction(s) (Instr. 3 and 4)			(iiisti. s	(111341.4)			
Common	Stock			04/29/2	014				S		45,000(1)	D	\$(0.7	3,3	330,049	D		
Common	Stock			04/30/2	014				S		40,000(1)	D	\$0.7	002(2)	3,2	290,049	D		
Common	Stock														1,8	300,000	I	By Miche Alliso Cook Trust	on
Common	Stock														1,8	300,000	I	By Steven Thom Cook Trust	nas
Common Stock														1,700,000		I	By Timot Shane Cook Trust	2	
		Ta	able II								oosed of, o				wned				
1. Title of Derivative Security (Instr. 3)	of 2. 3. Transaction 3A. Deemed 4. Transaction or Exercise (Month/Day/Year) if any Code (Instr.			action	5. Number 6. Date Exer			rcisable and Jate Amount of Securities Underlying Derivative Security (Instr. and 4)		8. Price of Derivative Security (Instr. 5) 3 9. Number derivative Securities Beneficially Owned Following Reported Transactior (Instr. 4)		Owners Form: Direct (or Indir (I) (Inst	Benefic D) Owners ect (Instr. 4	rect cial ship					
					Code	ode V (A) (D)				Expiration Date	Title	or Number of Shares							

Explanation of Responses:

- 1. The reporting person recognizes that the transactions reported on this Form 4 are matchable under Section 16(b) of the Securities Exchange Act of 1934 in connection with the reporting person's purchase of 162,320 shares of common stock at a price of \$.6426 per share on January 15, 2014. The reporting person has already paid to the issuer the profit realized in connection with the sale of 162,320 shares prior to the date of these transactions and these transactions do not result in any additional profit realized as calculated pursuant to the requirements of Section 16(b).
- 2. The price shown is a weighted average sale price for shares sold in multiple transactions; the sale prices ranged from \$0.70 to \$0.72 per share. The reporting person will provide to the issuer, any security holder of the issuer, or the SEC staff, upon request, information regarding the number of shares sold at each price within the range.

/s/ Guy S. Cook

05/01/2014

** 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.