FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

l	OMB APPRO	VAL
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l	Estimated average burd	en
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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).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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* COOK GUY S						2. Issuer Name and Ticker or Trading Symbol Bacterin International Holdings, Inc. [BONE]									5. Relationship of Rep (Check all applicable) Director			g Persor X	10% C	wner	
(Last) (First) (Middle) 246 PAINTED HILLS ROAD						3. Date of Earliest Transaction (Month/Day/Year) 05/07/2014 Officer (give title below)									Other (below)	specify					
(Street) BOZEMA	OZEMAN MT 59715				4. If <i>F</i>	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
Date					ansaction enth/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4		(A) or 3, 4 and	4 and 5)		5. Amount of Securities Beneficially Owned Following Reported		ership Direct ndirect :. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
							Code	v	Amount (A)		(A) or (D)	Price	ing Trans		action(s) 3 and 4)			(
Common Stock				05/07/2014					S	S		500,000(1)		\$0.6	6 ⁽²⁾	1,3	300,000	I		By Michelle Allison Cook Trust	
Common Stock				05/07/2014					S		500,000(1)		D	\$0.6	\$0.66(2)		1,300,000			By Steven Thomas Cook Trust	
Common Stock					05/07/2014				S		365,000 ⁽¹⁾		D	\$0.6	6 ⁽²⁾	1,200,000		I		By Timothy Shane Cook Trust	
Common Stock																2,2	260,049	D			
		Ta		Derivati (e.g., pu											y Ov	vned					
	2. Conversion or Exercise Price of Derivative Security 3. Transaction Date (Month/Day/Year) (Month/Day/Year) 3. Deemed Execution Date, if any (Month/Day/Year) (Month/Day/Year) 4. Transa Code (8)			Transac Code (Ir	tion of			Expiration (Month/E	on Dat	e Aar) SUDS		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amoun or Numbe		Deriva Securi (Instr. !		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owr Forr Dire or Ir (I) (I		11. Nature of Indirect Beneficial Ownership (Instr. 4)		
Evolanation				C	Code	v	(A)		Date Exercisa		Expiration Date	Tit	tle Sh	ares							

- 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 this transaction and this transaction does 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 \$0.65 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 05/09/2014

** 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.