FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

OMB APPRO	DVAL
OMB Number:	3235-0287
Estimated average burd	len
hours per response:	0.5

			or Section So(n) of the investment Company Act of 1940				
1. Name and Address of Reporting Person* <u>COOK GUY S</u>		erson*	2. Issuer Name and Ticker or Trading Symbol Bacterin International Holdings, Inc. [BONE]		tionship of Reporting all applicable) Director Officer (give title	Persor X	n(s) to Issuer 10% Owner Other (specify
(Last) 246 PAINTED	(First) HILLS ROAD	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 04/08/2014	below) below	below)		
(Street)			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line)	vidual or Joint/Group	Filing (Check Applicable
BOZEMAN	MT	59715		X	Form filed by One	Repor	ting Person
(City)	(State)	(Zip)	—		Form filed by More Person	than	One Reporting

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

Table 1- Non-Derivative Securities Acquired, Disposed of, of Denencially 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)					5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code	v	Amount(A) or (D)PriceReported Transaction(s) (Instr. 3 and 4)			(1150.4)			
Common Stock	04/08/2014		S		310,000 ⁽¹⁾	D	\$0.722 ⁽²⁾	4,450,049	D		
Common Stock	04/09/2014		S		100,000 ⁽¹⁾	D	\$0.7087(3)	4,350,049	D		
Common Stock								1,800,000	I	By Michelle Allison Cook Trust	
Common Stock								1,800,000	I	By Steven Thomas Cook Trust	
Common Stock								1,700,000	I	By Timothy Shane Cook Trust	

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

	1. Title of 2. 3. Transaction 3A. Deemed 4. 5. Number 6. Date Exercisable and 7. Title and 8. Price of 9. Number of 10. 11. Nature														
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution Date, Trar		Transaction Code (Instr. 8)		mber rities ired r osed) . 3, 4)	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)		11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount 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 \$0.6426 per share on January 15, 2014. The reporting person will pay to the issuer the profit realized in connection with these transactions 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 \$0.75 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.

3. The price shown is a weighted average sale price for shares sold in multiple transactions; the sale prices ranged from \$0.70 to \$0.7172 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

** Signature of Reporting Person

04/10/2014

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.