FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT	OF CHANG	ES IN BENEF	FICIAL OWI	NERSHIP

l	OMB APPRO	VAL
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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]									Relationship of Reporting Person(s) to Issuer (Check all applicable) Director					
(Last) 246 PAIN	(Fi	•	(Middle)			oate of E 05/201		Tran	saction	(Mon	th/Day/Year)				belov	er (give title w)	bel	er (specify ow)
(Street)	AN M	Т	59715		4. If	Ameno	dment,	Date	of Origi	nal Fil	ed (Month/Da	y/Year)		6. Indiv Line) X	Forn	r Joint/Group n filed by One n filed by Mor	Reporting P	erson
(City)	(St	ate)	(Zip)												Pers	on		
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		nd 5) Secui Benet Owne		ficially d Following	6. Ownershi Form: Direc (D) or Indire (I) (Instr. 4)	of Indirect Beneficial Ownership			
							Code V		Amount	(A) or (D)		e	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)		
Common	Stock			05/05/20)14				S		25,000 ⁽¹⁾	D	\$0.	7402 ⁽²⁾	2,9	985,049	D	
Common	Stock			05/06/20)14				S		725,000(1)	D	\$0.	7521 ⁽³⁾	2,	260,049	D	
Common	Stock			05/06/20)14				S		135,000(1)	D	\$0.	7521 ⁽³⁾	1,	565,000	I	By Timothy Shane Cook Trust
Common	Stock														1,8	800,000	I	By Michelle Allison Cook Trust
Common	Stock														1,	800,000	I	By Steven Thomas Cook Trust
		Т	able II								oosed of, o				wned			
Security or Exercise (Month/Day/Year) if any		4. Transa	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		nber tive ities red sed			cisable and Date	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		8. Price of Derivative Security (Instr. 5)		9. Number of derivative Securities Beneficially Owned Following Reported Transaction((Instr. 4)	Ownersh Form: Direct (D or Indirec (I) (Instr.	Beneficial Ownership ct (Instr. 4)			
Evalenation	of Respons				Code	v	(A)	(D)	Date Exerc	isable	Expiration Date		Amou or Numb of Share	er				

- 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 has already paid to the issuer the profit realized with respect to the sale of 162,320 prior to the date of this transaction and will pay to the issuer the additional profit realized in connection with this transaction 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 \$0.74 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 \$0.75 to \$0.78 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

05/07/2014

** 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.