FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPRO	VAL
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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*  COOK GUY S						2. Issuer Name <b>and</b> Ticker or Trading Symbol Bacterin International Holdings, Inc. [ BONE								(Ch	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  X Director X 10% Owner				
(Last) (First) (Middle) 600 CRUISER LANE					3. Date of Earliest Transaction (Month/Day/Year) 05/24/2012										Officer (give title below)  CEO  Other (specify below)				
(Street) BELGRADE MT 59714  (City) (State) (Zip)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								Line	e) <mark>X</mark> Forr Forr	dual or Joint/Group Filing (Check Applicable  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																			
1. Title of Security (Instr. 3)  2. Transac Date (Month/Date)						Execution Date,			Code (Instr. 5)					Secur Benef Owne	5. Amount of Securities Beneficially Owned Following Reported		nership Direct Indirect etr. 4)	7. Nature of Indirect Beneficial Ownership	
						Code	v	Amount	(A (D	) or )	Price	Trans	action(s) 3 and 4)			(Instr. 4)			
Common Stock			05/24	/24/2012				P		4,500		A	\$1.6	63 12,901,588			D		
		Та	ble II - D								sed of, onvertib				Owned				
1. Title of Derivative Security (Instr. 3)	ve Conversion Date Execution Date or Exercise (Month/Day/Year) if any		Date,	4. Transaction Code (Instr. 8)		n of		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		tr. 3	B. Price of Derivative Security Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ov Fo Dii or (I)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title	or Num of Shar	.					

**Explanation of Responses:** 

/s/ Guy Cook

05/24/2012

\*\* Signature of Reporting Person

Date

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.