(Last)

(Street)

(Citv)

1. Title of 2.

FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

**OMB APPROVAL** OMB Number: Estimated average burden hours per response: 0.5

Form filed by More than One Reporting

11. Nature

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

(State)

3. Transaction

(qiZ)

or Section 30(h) of the Investment Company Act of 1940 5. Relationship of Reporting Person(s) to Issuer 2. Issuer Name and Ticker or Trading Symbol 1. Name and Address of Reporting Person\* (Check all applicable) Bacterin International Holdings, Inc. | BONE **COOK GUY S** X Director 10% Owner Officer (give title Other (specify below) below) (First) (Middle) 3. Date of Earliest Transaction (Month/Day/Year) **CEO** 600 CRUISER LANE 06/02/2011 4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable **BELGRADE** 59714 MT Form filed by One Reporting Person

## Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 2. Transaction 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5) 5. Amount of 1. Title of Security (Instr. 3) 2A. Deemed 6. Ownership 7. Nature Transaction Form: Direct (D) or Indirect of Indirect Beneficial **Execution Date** (Month/Day/Year) if any (Month/Day/Year) Beneficially Code (Instr. 8) Owned Following (I) (Instr. 4) Ownership Reported (Instr. 4) (A) or (D) Transaction(s) ν Price Code Amount (Instr. 3 and 4) 06/06/2011 Common Stock 150,000 D \$2.9721 12,952,171 D

## Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) 5. Number 6. Date Exercisable and 7. Title and Amount 8. Price of 9. Number of 10. 3A. Deemed

Derivative Security (Instr. 3)	Conversion or Exercise Price of Derivative Security	Date (Month/Day/Year)	Transaction Code (Instr. 8)		of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expiration Date (Month/Day/Year)		of Securities Underlying Derivative Security (Instr. 3 and 4)		Derivative Security (Instr. 5)	derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	of Indirect Beneficial Ownership (Instr. 4)
			Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Warrant	\$3.52	06/02/2011	S			36,000	11/06/2011	05/06/2016	Common Stock	36,000	\$0	20,818	D	

**Explanation of Responses:** 

/s/ Guy Cook

06/06/2011

\*\* 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.