FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

| | OMB APPROVAL | | | | | | | | |
|---|---------------------|----------|--|--|--|--|--|--|--|
| | OMB Number: | 3235-028 | | | | | | | |
| - | Estimated average l | nurdon | | | | | | | |

37 hours per response: 0.5

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 (Last) (First) (Middle) | | | | <u>Ba</u>] | Susuer Name and Ticker or Trading Symbol Bacterin International Holdings, Inc. [Bone] Date of Earliest Transaction (Month/Day/Year) | | | | | | | | | 5. Relationship of Reportin (Check all applicable) Director Officer (give title below) | | | X 10% C | | wner (specify | |
|--|----------------------|--|------------------------------|-------------|--|---|--|-------|-------------------------|----------|---|------------|--------|--|--|---|--|------|--|---|
| (Street) BELGRA | | | | | | 06/11/2013 4. If Amendment, Date of Original Filed (Month/Day/Year) | | | | | | | | | | dividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person | | | | |
| Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transa Date (Month/D | | | | | action | Execution Date, | | | 3. Trans Code | , Dis | 4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5) | | | | 5. Amount of Securities Beneficially Owned Foll Reported | | ount of ties cially I Following ted | Form | nership : Direct · Indirect str. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
| | | | | | /2013 | 2013 | | Code | V | 21,000 | 0 | (A) or (D) | | \$0.56 | | 5,815,188 | | D | Des Tresset | |
| Common Stock Common Stock Common Stock | | | | | | | | | | | | | | | | 2,000,000 2,000,000 2,000,000 | | | I I | By Trust By Trust By Trust |
| 1. Title of Derivative Security (Instr. 3) | Table II - I tle of | | e.g., pued la Date, ay/Year) | | | n of E Derivative (Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | | optio | Exercise on Date Day/Ye | onvertib | 7. Title and Amount of Securities Underlying Derivative Security (Ins and 4) Amo or Num of | | str. 3 | 8. Price of Derivative Security (Instr. 5) | | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4) | f 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | | 11. Nature of Indirect Beneficial Ownership (Instr. 4) | |

Explanation of Responses:

/s/ Guy S. Cook

06/12/2013

** Signature of Reporting Person

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.