

Bacterin International Holdings, Inc.  
 Form 3  
 July 11, 2014

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

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**INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,  
 Section 17(a) of the Public Utility Holding Company Act of 1935 or Section  
 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

|   |         |                                      |  |  |
|---|---------|--------------------------------------|--|--|
| 1. Name and Address of Reporting Person * |         | 2. Date of Event Requiring Statement | 3. Issuer Name <b>and</b> Ticker or Trading Symbol                         |  |
| Â DI SILVIO ROBERT M                      |         | (Month/Day/Year)                     | Bacterin International Holdings, Inc. [BONE]                               |  |
| (Last)                                    | (First) | (Middle)                             | 07/01/2014   |  |
| 664 CRUISER LANE                          |         |                                      | 4. Relationship of Reporting Person(s) to Issuer                           | 5. If Amendment, Date Original Filed(Month/Day/Year)                   |
| (Street)                                  |         |                                      | (Check all applicable)   |  |
| BELGRADE,Â MTÂ 59714                      |         |                                      | <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner       | 6. Individual or Joint/Group Filing(Check Applicable Line)             |
| (City)                                    | (State) | (Zip)                                | <input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other | <input checked="" type="checkbox"/> Form filed by One Reporting Person |
|   |         |                                      | (give title below) (specify below)   | <input type="checkbox"/> Form filed by More than One Reporting Person  |
|   |         |                                      | President  |  |

**Table I - Non-Derivative Securities Beneficially Owned**

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---------------------------------|---|--|---|
| Common Stock                    | 11,981  | D  | Â   |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly. SEC 1473 (7-02)

**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 control number.**

**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

| 1. Title of Derivative Security (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) | 4. Conversion or Exercise Price of Derivative Security | 5. Ownership Form of Derivative Security: Direct (D) or Indirect | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|--|--|---|--|--|---|
|  | Date Exercisable   | Title   | Amount or Number of                                    |  |   |

|              |       |            |                 | Shares  |         | (I)<br>(Instr. 5) |   |
|--------------|-------|------------|-----------------|---------|---------|-------------------|---|
| Stock Option | Â (1) | 07/01/2024 | Common<br>Stock | 550,000 | \$ 0.68 | D                 | Â |

## Reporting Owners

| Reporting Owner Name / Address                               | Relationships |           |             |       |
|--|---------------|-----------|-------------|-------|
|  | Director      | 10% Owner | Officer     | Other |
| DI SILVIO ROBERT M<br>664 CRUISER LANE<br>BELGRADE, MT 59714 | Â             | Â         | Â President | Â     |

## Signatures

/s/ Robert Di  
Silvio 07/11/2014

\_\_Signature of Reporting Person Date

## Explanation of Responses:

- \* If the form is filed by more than one reporting person, *see* Instruction 5(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).
- The Option will vest as follows: (i) twenty percent (20%), or 110,000 underlying shares, will vest on July 1, 2015 and (ii) the remaining (1) eighty percent (80%) will vest in forty-seven (47) equal monthly installments as to 9,170 underlying shares, beginning August 1, 2015, and one final installment as to 9,010 underlying shares on July 1, 2019.

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### Remarks:

ExhibitsÂ Â Â Â ExhibitÂ 24Â -Â LimitedÂ PowerÂ ofÂ Attorney

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.