



(Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2. below):

Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

**Item 7.01 Regulation FD Disclosure.**

The Company has issued a press release entitled “Bacterin Study at AAOS 2012 Annual Meeting Shows OsteoSponge® Equivalence to rhBMP-2 in Spinal Fusion; Presented Specifically to Orthopaedic Surgeons” which is attached as Exhibit 99.1 and incorporated herein.

The information in this Item 7.01 and the document attached as Exhibit 99.1 are being furnished and shall not be deemed “filed” for purposes of Section 18 of the Securities and Exchange Act of 1934, as amended (the “Exchange Act”), nor otherwise subject to the liabilities of that section, nor incorporated by reference in any filing under the Securities Act of 1933 or the Exchange Act, except as shall be expressly set forth by specific reference in such a filing.

**Item 9.01. Financial Statements and Exhibits.**

(d) Exhibits.

| Exhibit No | Description   |
|------------|---|
| 99.1       | Press Release of Bacterin International Holdings, Inc. dated February 10, 2012 entitled “Bacterin Study at AAOS 2012 Annual Meeting Shows OsteoSponge® Equivalence to rhBMP-2 in Spinal Fusion; Presented Specifically to Orthopaedic Surgeons” |

SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Dated: February 10, 2012 **BACTERIN INTERNATIONAL HOLDINGS, INC.**

By: /s/ Guy S. Cook  
Name: Guy S. Cook  
Title: President and Chief Executive Officer

**EXHIBIT INDEX**

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