

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

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**FORM 8-K**

**CURRENT REPORT**  
**Pursuant to Section 13 or 15(d) of the**  
**Securities Exchange Act of 1934**

Date of report (Date of earliest event reported): **September 22, 2010**

**Emergent BioSolutions Inc.**  
(Exact Name of Registrant as Specified in Charter)

**Delaware**  
(State or Other Jurisdiction  
of Incorporation)

**001-33137**  
(Commission  
File Number)

**14-1902018**  
(IRS Employer  
Identification No.)

**2273 Research Boulevard, Suite 400, Rockville, Maryland**  
(Address of Principal Executive Offices)

**20850**  
(Zip Code)

Registrant's telephone number, including area code: **(301) 795-1800**

**Not applicable**

(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))
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**Item 1.01. Entry into a Material Definitive Agreement.**

On September 22, 2010, Emergent BioDefense Operations Lansing Inc., a wholly-owned subsidiary of Emergent BioSolutions Inc. (“Registrant”), entered into a no-cost modification of its contract, dated September 25, 2007, with the Biomedical Advanced Research and Development Authority of the U.S. Department of Health and Human Services. The modification extends the period of performance of the contract at no additional cost from September 24, 2010 to December 31, 2010, and extends the delivery date for certain specified line items and milestone deliverables relating to a post-exposure prophylaxis (PEP) indication for BioThrax® to December 31, 2010.

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**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.

Date: September 28, 2010

EMERGENT BIOSOLUTIONS INC.

By: /s/R. Don Elsey

R. Don Elsey

Chief Financial Officer