

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549**

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) January 19, 2009

LSB INDUSTRIES, INC.

(Exact name of registrant as specified in its charter)

Delaware

1-7677

73-1015226

(State or other jurisdiction
of incorporation)

(Commission File
Number)

(IRS Employer
Identification No.)

16 South Pennsylvania, Oklahoma City, Oklahoma

73107

(Address of principal executive offices)

(Zip Code)

Registrant's telephone number, including area code

(405) 235-4546

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))

Section 1 – Registrant's Business and Operations

Item 1.01. Entry into a Material Definitive Agreement

El Dorado Chemical Company ("EDC"), a wholly-owned subsidiary of LSB Industries, Inc., and Orica USA Inc. ("Orica") entered into the Third Amendment to AN Supply Agreement (the "Amendment") on January 19, 2009. The Amendment is effective as of December 9, 2008. The Amendment extended the end of the initial term of the amended ammonia supply agreement between EDC and Orica by six months, from December 31, 2010 to June 30, 2011. A copy of the Amendment is attached as Exhibit 99.1 hereto and is incorporated by reference in this Item 1.01

Section 9 – Financial Statements and Exhibits

Item 9.01. Financial Statements and Exhibits

(d) Exhibits.

Exhibit Description

99.1 Third Amendment to AN Supply Agreement, dated effective December 9, 2008, between El Dorado Chemical Company and Orica USA Inc.

SIGNATURES

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

Dated: January 21, 2009

LSB INDUSTRIES, INC.

By: /s/ Tony M. Shelby

Tony M. Shelby,

Executive Vice President of Finance and Chief Financial Officer

THIRD AMENDMENT TO AN SUPPLY AGREEMENT

This Third Amendment to AN Supply Agreement ("Third Amendment") is entered into by and between Orica USA, Inc. ("Orica") and El Dorado Chemical Company ("EDC"), with an effective date of December 9, 2008 ("Effective Date") in reference to the following:

A. Orica and EDC entered into that certain AN Supply Agreement dated November 1, 2001 (the "Original Agreement"), as amended by that certain Amended and Restated First Amendment letter dated April 3, 2007 relating to ammonia supply ("First Amendment"). Orica and EDC also entered into a Second Amendment to AN Supply Agreement dated August 24, 2006 with an effective date of January 1, 2006 ("Second Amendment"). The Original Agreement, First Amendment, and the Second Amendment are collectively hereinafter referred to as the "Agreement". Capitalized terms that are not otherwise defined herein shall have the meaning given such terms in the Agreement.

B. The parties desire to extend the term of the Agreement to June 30, 2011.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

1. **Preamble.** The preamble is hereby incorporated herein by reference; provided that, in case of any inconsistency between any part of the preamble and any part of the body of the Agreement, then the body of the Agreement shall prevail.
2. **Term.** The references to "December 31, 2010" in Section 2.1 of the Agreement are hereby deleted, and "June 30, 2011" is inserted in their place.
3. **No Other Changes.** Except as provided in this Third Amendment, all other terms of the Agreement shall remain in full force and effect.

IN WITNESS WHEREOF, the parties have executed this Third Amendment effective as of the date first written above.

ORICA USA, INC.

By: /s/ Craig Elkington
Name: Craig Elkington
Title: President
Date of Signature: 1/19/09

EL DORADO CHEMICAL COMPANY

By: /s/ Tony Shelby
Name: Tony Shelby
Title: Vice President
Date of Signature: 12/09/08