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

FORM 6-K

REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16 or 15d-16
UNDER THE SECURITIES EXCHANGE ACT OF 1934

Date of Report: August 27, 2010

CEMEX, S.A.B. de C.V.
(Exact name of Registrant as specified in its charter)

CEMEX PUBLICLY TRADED STOCK CORPORATION WITH VARIABLE CAPITAL
(Translation of Registrant's name into English)

United Mexican States
(Jurisdiction of incorporation or organization)

Av. Ricardo Margáin Zozaya #325, Colonia Valle del Campestre
Garza García, Nuevo León, México 66265
(Address of principal executive offices)

Indicate by check mark whether the registrant files or will file annual reports under cover Form 20-F or Form 40-F.

Form 20-F X Form 40-F

Indicate by check mark whether the registrant by furnishing the information contained in this Form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.

Yes No X

If "Yes" is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b):

N/A

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CEMEX COMPLETES SALE OF NON-CORE AGGREGATES AND CONCRETE BLOCK ASSETS IN KENTUCKY

Monterrey, Mexico. August 27, 2010 – CEMEX, S.A.B. de C.V. (NYSE: CX) announced today that it has completed the previously-announced sale of seven aggregates quarries, three resale aggregate distribution centers, and one concrete block manufacturing facility in Kentucky to Bluegrass Materials Company, LLC.

These assets were acquired by CEMEX in 2007 as part of the Rinker Group acquisition. The facilities and properties were deemed non-core assets for CEMEX's integrated cement, concrete, aggregates and building materials operations throughout the United States.

Proceeds from the sale will be used by CEMEX to reduce its outstanding debt and/or to enhance its liquidity position.

CEMEX is a global building materials company that provides high-quality products and reliable service to customers and communities in more than 50 countries throughout the world. CEMEX has a rich history of improving the well-being of those it serves through its efforts to pursue innovative industry solutions and efficiency advancements and to promote a sustainable future. For more information, visit www.cemex.com.

Bluegrass Materials Company, LLC is a wholly owned subsidiary of Panadero Aggregates Holdings, LLC ("Panadero"). Panadero was formed in 2010 by John D. Baker II and Ted L. Baker II, formerly of Florida Rock Industries, to invest in aggregates and other construction materials businesses.

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This press release contains forward-looking statements and information that are necessarily subject to risks, uncertainties, and assumptions. Many factors could cause the actual results, performance, or achievements of CEMEX to be materially different from those expressed or implied in this release, including, among others, changes in general economic, political, governmental and business conditions globally and in the countries in which CEMEX does business, changes in interest rates, changes in inflation rates, changes in exchange rates, the level of construction generally, changes in cement demand and prices, changes in raw material and energy prices, changes in business strategy, and various other factors. Should one or more of these risks or uncertainties materialize, or should underlying assumptions prove incorrect, actual results may vary materially from those described herein. CEMEX assumes no obligation to update or correct the information contained in this press release.

SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, CEMEX, S.A.B. de C.V. has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

CEMEX, S.A.B. de C.V.
(Registrant)

Date: August 27, 2010

By: /s/ Rafael Garza
Name: Rafael Garza
Title: Chief Comptroller