

**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**

For the month of August, 2013

Commission File Number: 001-14946

CEMEX, S.A.B. de C.V.

(Translation of Registrant's name into English)

**Avenida Ricardo Margáin Zozaya #325, Colonia Valle del Campestre
Garza García, Nuevo León, México 66265**
(Address of principal executive office)

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 Form 40-F

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7):

Contents

1. Press release, dated August 5, 2013, announcing offering of senior secured notes by CEMEX, S.A.B. de C.V. (NYSE: CX).

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 5, 2013

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

EXHIBIT INDEX

EXHIBIT NO.

DESCRIPTION

1.

Press release, dated August 5, 2013, announcing offering of senior secured notes by CEMEX, S.A.B. de C.V. (NYSE:CMX).

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CEMEX ANNOUNCES OFFERING OF SENIOR SECURED NOTES

MONTERREY, MEXICO, AUGUST 5, 2013 – CEMEX, S.A.B. de C.V. (“CEMEX”) (NYSE: CX) announced today its intention to offer a new series of senior secured notes (the “Notes”) denominated in U.S. dollars, subject to market and other conditions.

CEMEX intends to use the net proceeds from the offering to purchase a portion of the 9.50% Senior Secured Notes due 2016 (the “2016 Notes”) issued by CEMEX Finance LLC and the remainder, if any, for general corporate purposes, including the repayment of other indebtedness. CEMEX currently expects to purchase a portion of the 2016 Notes at a price of approximately U.S.\$1,075 for each U.S.\$1,000 of 2016 Notes plus accrued interest.

The Notes will share in the collateral pledged for the benefit of the lenders under CEMEX’s Facilities Agreement, dated as of September 17, 2012, and other secured obligations having the benefit of such collateral, and will be guaranteed by CEMEX México, S.A. de C.V., CEMEX Concretos, S.A. de C.V., Empresas Tolteca de México, S.A. de C.V., New Sunward Holding B.V., CEMEX España, S.A., Cemex Asia B.V., CEMEX Corp., Cemex Egyptian Investments B.V., Cemex Egyptian Investments II B.V., CEMEX France Gestion (S.A.S.), Cemex Research Group AG, Cemex Shipping B.V. and CEMEX UK.

This release is neither an offer to purchase nor a solicitation of an offer to sell or buy the 2016 Notes. Any offer to purchase the 2016 Notes will be made solely on the terms and subject to the conditions set out in a separate offer to purchase directed to holders of the 2016 Notes.

The Notes and the guarantees thereof have not been and will not be registered under the U.S. Securities Act of 1933, as amended (the “Securities Act”), or any state securities laws, and they may not be offered or sold in the United States absent registration or an applicable exemption from the registration requirements of the Securities Act. The Notes will be offered only to qualified institutional buyers pursuant to Rule 144A and outside the United States pursuant to Regulation S, both as promulgated under the Securities Act.

THE NOTES HAVE NOT BEEN AND WILL NOT BE REGISTERED WITH THE NATIONAL SECURITIES REGISTRY (REGISTRO NACIONAL DE VALORES) MAINTAINED BY THE MEXICAN NATIONAL BANKING AND SECURITIES COMMISSION (COMISIÓN NACIONAL BANCARIA Y DE VALORES, OR CNBV), AND MAY NOT BE OFFERED OR SOLD PUBLICLY IN MEXICO, EXCEPT THAT THE NOTES MAY BE OFFERED AND SOLD IN MEXICO, PURSUANT TO THE PRIVATE PLACEMENT EXEMPTION SET FORTH IN ARTICLE 8 OF THE MEXICAN SECURITIES MARKET LAW (LEY DEL MERCADO DE VALORES), TO INSTITUTIONAL AND QUALIFIED INVESTORS. UPON THE ISSUANCE OF THE NOTES, WE WILL NOTIFY THE CNBV OF THE ISSUANCE OF THE NOTES, INCLUDING THE PRINCIPAL CHARACTERISTICS OF THE NOTES AND THE OFFERING OF THE NOTES OUTSIDE MEXICO. SUCH NOTICE WILL BE DELIVERED TO THE CNBV TO COMPLY WITH A LEGAL REQUIREMENT AND FOR INFORMATION PURPOSES ONLY, AND THE DELIVERY TO AND THE RECEIPT BY THE CNBV OF SUCH NOTICE, DOES NOT CONSTITUTE OR IMPLY ANY CERTIFICATION AS TO THE INVESTMENT QUALITY OF THE NOTES OR OF CEMEX’S

SOLVENCY, LIQUIDITY OR CREDIT QUALITY OR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SET FORTH IN THE DOCUMENTS USED FOR THE OFFERING. THE INFORMATION CONTAINED IN THE DOCUMENTS USED FOR THE OFFERING OF THE NOTES IS THE EXCLUSIVE RESPONSIBILITY OF CEMEX AND HAS NOT BEEN REVIEWED OR AUTHORIZED BY THE CNBV.

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This press release contains forward-looking statements and information that are necessarily subject to risks, uncertainties, and assumptions. No assurance can be given that the transactions described herein will be consummated or as to the ultimate terms of any such transactions. CEMEX assumes no obligation to update or correct the information contained in this press release.