CEMEX SAB DE CV Form 6-K August 21, 2012

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, 2012

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 X 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 21, 2012, announcing acceptance level in excess of 90% under CEMEX, S.A.B. de C.V.'s (NYSE:CX) ongoing debt exchange offer and an extension of the offer period.

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 21, 2012 By: /s/ Rafael Garza

Name: Rafael Garza Title: Chief Comptroller

EXHIBIT INDEX

EXHIBIT NO.

DESCRIPTION

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