

CEMEX SAB DE CV  
Form 6-K  
October 19, 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 October, 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  
Form 20-F         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 October 19, 2012, announcing offering of shares by CEMEX Latam Holdings, S.A., a subsidiary of 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: October 19, 2012

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

EXHIBIT INDEX

EXHIBIT NO. DESCRIPTION

1. Press release, dated October 19, 2012, announcing offering of shares by CEMEX Latam Holdings, S.A., a subsidiary of CEMEX, S.A.B. de C.V. (NYSE:CX).
-