

VOLITIONRX LIMITED

3,060,725 Shares of Common Stock  
(\$0.001 par value)

This prospectus supplement supplements information contained in that certain prospectus dated April 25, 2014, as amended, of VolitionRx Limited (the “Company”), relating to the resale from time to time of up to 1,500,000 shares of the Company’s outstanding common stock and up to 1,560,725 shares of the Company’s common stock issuable upon the exercise of outstanding warrants, which are held by certain stockholders and warrant holders named in the prospectus under the section entitled “Selling Stockholders.” This prospectus supplement should be read in conjunction with the prospectus. We prepared this supplement based on the information supplied to us by the Selling Stockholders named in the table and we have not sought to verify such information. Since the date on which each Selling Stockholder provided this information, such Selling Stockholder may have sold, transferred or otherwise disposed of all or a portion of the shares of common stock that he, she or it beneficially owns. For purposes of this prospectus supplement, the calculation of the “Percentage Beneficially Owned after the Offering” below reflects 27,136,774 shares of the Company’s common stock outstanding as of November 30, 2016 assuming full exercise of the Warrants held by the Selling Stockholders outstanding on that date (and excluding all other shares issuable upon exercise of outstanding options and warrants other than those beneficially owned by such Selling Stockholder).

The following amends and supplements the information set forth in the prospectus under the caption “Selling Stockholders” with respect to the Selling Stockholders named below and the respective shares of common stock beneficially owned by such Selling Stockholders that may be offered pursuant to the prospectus:

<b>Name of Selling Stockholder</b>	<b>Position, Office or Other Material Relationship</b>	<b>Shares Beneficially Owned Prior to the Offering</b>	<b>Shares to be Offered</b>	<b>Shares Beneficially Owned After the Offering</b>	<b>Percentage Beneficially Owned after the Offering</b>
GVC Partners, LLC <sup>(9)</sup>		149	0	149	*
Pinnacle 18, LLLP <sup>(18)</sup>		30,000	30,000	0	0.00%
OTA, LLC <sup>(22)</sup>		110,000	110,000	0	0.00%
Michael Donnelly <sup>(25)</sup>		6,440	3,000	3,440	*
Richard Huebner <sup>(26)</sup>		48,563	23,400	25,163	*

\* Less than 1%.

(9) Consists of 149 shares of common stock subject to warrants that are currently exercisable and not being offered pursuant to this prospectus. Vicki Barone has voting and dispositive control over the warrants beneficially owned by GVC Partners, LLC.

(18) Consists of 20,000 shares of common stock and 10,000 shares of common stock subject to warrants that are currently exercisable and being offered pursuant to this prospectus. Menachem Kranz has voting and dispositive control over the warrants and shares of common stock beneficially owned by Pinnacle 18, LLLP.

(22) Consists of 100,000 shares of common stock and 10,000 shares of common stock subject to warrants that are currently exercisable and being offered pursuant to this prospectus. Ira M. Leventhal, whose business address is One Manhattanville Road, Purchase, NY 10577, has voting and dispositive control over the securities beneficially owned by OTA, LLC. Mr. Leventhal disclaims beneficial ownership of such securities. OTA, LLC is a broker dealer and is deemed by the SEC to be an underwriter with respect to the securities. David R. Morgan, a Selling Stockholder, assigned 25,000 warrants held in his name to OTA, LLC in May 2015, which warrants were exercised in July 2015. Ahava Investment Capital LP, a Selling Stockholder, assigned an aggregate of 50,000 warrants held in its name to OTA, LLC between August 2016 and September 2016, which warrants were exercised in September 2016. Rosen Investment Fund, LLC, a Selling Stockholder, assigned 25,000 warrants held in its name to OTA, LLC in September 2016, which warrants were exercised in September 2016. Pinnacle 18, LLLP, a Selling Stockholder, assigned 10,000 warrants held in its name to OTA, LLC in September 2016.

(25) Consists of 1,000 shares of common stock and 5,440 shares of common stock subject to warrants that are currently exercisable, of which 3,000 shares of common stock subject to warrants are being offered pursuant to this prospectus. GVC Partners, LLC, a Selling Stockholder, assigned 3,000 warrants held in its name to Michael Donnelly in November 2016.

(26) Consists of 48,563 shares of common stock subject to warrants that are currently exercisable, of which 23,400 shares of common stock subject to warrants are being offered pursuant to this prospectus. GVC Partners, LLC, a Selling Stockholder, assigned 2,950 warrants held in its name to Richard Huebner in November 2016.

The date of this prospectus supplement is December 13, 2016.