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 2018

Commission File Number: **333-219066**

Clementia Pharmaceuticals Inc.

(Translation of registrant's name into English)

4150 St Catherine Street West, Suite 550
(Address of principal executive office)

Indicate by check mark whether the registrant files or will file annual reports under cover of 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):

Note: Regulation S-T Rule 101(b)(1) only permits the submission in paper of a Form 6-K if submitted solely to provide an attached annual report to security holders.

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):

Note: Regulation S-T Rule 101(b)(7) only permits the submission in paper of a Form 6-K if submitted to furnish a report or other document that the registrant foreign private issuer must furnish and make public under the laws of the jurisdiction in which the registrant is incorporated, domiciled or legally organized (the registrant's "home country"), or under the rules of the home country exchange on which the registrant's securities are traded, as long as the report or other document is not a press release, is not required to be and has not been distributed to the registrant's security holders, and, if discussing a material event, has already been the subject of a Form 6-K submission or other Commission filing on EDGAR.

The information contained in this Report (including the exhibits hereto) is hereby incorporated by reference into Clementia Pharmaceuticals Inc.'s Registration Statement on Form F-3 (File No. 333-227726).

On October 29, 2018, the Registrant issued a press release, a copy of which is attached hereto as Exhibit 99.1 and is incorporated herein by reference.

(c) Exhibit 99.1. Press release dated October 29, 2018

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Clementia Pharmaceuticals Inc.
(Registrant)

Date: October 29, 2018

/s/ CLARISSA DESJARDINS
Clarissa Desjardins
Chief Executive Officer

EXHIBIT 99.1

Clementia Announces Proposed Public Offering of Common Shares

MONTREAL, Oct. 29, 2018 (GLOBE NEWSWIRE) -- Clementia Pharmaceuticals Inc. (Nasdaq: CMTA), a clinical-stage biopharmaceutical company innovating treatments for people with ultra-rare bone disorders and other diseases, today announced that it intends to offer and sell, subject to market conditions, $50,000,000 of its common shares in an underwritten public offering. The offering is subject to market and other conditions, and there can be no assurances as to whether or when the offering may be completed, or the actual size or terms of the offering. In addition, Clementia intends to grant the underwriters a 30-day option to purchase up to an additional 15% of the number of common shares sold in connection with the offering.

Morgan Stanley and Leerink Partners are acting as book-running managers for the offering.

The securities described above are being offered by Clementia pursuant to a shelf registration statement on Form F-3 that was filed with the Securities and Exchange Commission (the "SEC") on October 5, 2018, which was declared effective by the SEC on October 18, 2018. A preliminary prospectus supplement relating to and describing the terms of the offering will be filed with the SEC and will be available on the SEC's website at www.sec.gov. Copies of the preliminary prospectus supplement and the accompanying prospectus relating to this offering, when available, may be obtained from: Morgan Stanley at Attention: Prospectus Department, 180 Varick Street, 2nd Floor, New York, New York 10014; or Leerink Partners LLC at Attention: Syndicate Department, One Federal Street, 37th Floor, Boston, MA, 02110, or by telephone at (800) 808-7525, ext. 6132, or by email at syndicate@leerink.com.

This press release shall not constitute an offer to sell or the solicitation of an offer to buy, nor shall there be any sale of these securities in any state or jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the applicable securities laws of any such state or jurisdiction.

About Clementia Pharmaceuticals Inc.
Clementia is a clinical-stage company innovating treatments for people with ultra-rare bone disorders and other diseases with high medical need. The Company is preparing for a 2019 NDA submission to the FDA to seek approval of its lead product candidate, palovarotene, a novel RARγ agonist, for the treatment of fibrodysplasia ossificans progressiva (FOP). The ongoing Phase 3 MOVE Trial is evaluating an additional dosing regimen of palovarotene which includes a chronic 5 mg daily dose in addition to the episodic 20/10 mg dosing regimen at the time of a flare-up. Palovarotene is also in a Phase 2 trial, the MO-Ped Trial, for the treatment of multiple osteochondromas (MO, also known as multiple hereditary exostoses, or MHE). In addition, Clementia has commenced a Phase 1 trial for an eye drop formulation of palovarotene for the potential treatment of dry eye disease and is also investigating other conditions that may benefit from RARγ therapy.

Cautionary Note Regarding Forward-Looking Statements
This press release may include “forward-looking statements” within the meaning of the applicable securities laws, including with respect to the proposed timing of submission of the NDA for palovarotene. Each forward-looking statement contained in this press release is subject to known and unknown risks and uncertainties and other unknown factors that could cause actual results to differ materially from historical results and those expressed or implied by such statement. In addition to statements which explicitly describe such risks and uncertainties, readers are urged to consider statements labeled with the terms “believes,” “belief,” “expects,” “intends,” “anticipates,” “will,” or “plans” to be uncertain and forward-looking. Applicable risks and uncertainties include, among others, the Company’s ability to successfully complete in a timely manner the studies required to be completed in order to submit the NDA, the Company’s ability to generate revenue and become profitable; the risks related to its heavy reliance on palovarotene, its only current product candidate; the risks associated with the development of palovarotene and any future product candidate, including the demonstration of efficacy and safety; its dependence on licensed intellectual property, including the ability to source and maintain licenses from third-party owners; as well as the risks identified under the heading “Risk Factors” in the Company’s Annual Report on Form 20-F filed with the Securities and Exchange Commission (“SEC”), as well as the other information it files with the SEC or on SEDAR. Clementia cautions investors not to rely on the forward-looking statements contained in this press release when making an investment decision in its securities. Investors are encouraged to read the Company’s filings with the SEC or on SEDAR, available at www.sec.gov or www.sedar.com, for a discussion of these and other risks and uncertainties. The forward-looking statements in this press release speak only as of the date of this press release, and the Company undertakes no obligation to update or revise any of these statements, whether as a result of new information, future events or otherwise, except as required by law.

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