
**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549**

**AMENDMENT NO. 1
TO
FORM S-3
REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933**

SORRENTO THERAPEUTICS, INC.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation or organization)

33-0344842

(I.R.S. Employer Identification No.)

**9380 Judicial Drive
San Diego, CA 92121
(858) 210-3700**

(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

**Dr. Henry Ji
President and Chief Executive Officer
Sorrento Therapeutics, Inc.
9380 Judicial Drive
San Diego, CA 92121
(858) 210-3700**

(Name, address, including zip code, and telephone number, including area code, of agent for service)

Copies to:

**Jeffrey T. Hartlin, Esq.
Paul Hastings LLP
1117 S. California Avenue
Palo Alto, CA 94304
(650) 320-1804**

Approximate date of commencement of proposed sale to the public: From time to time after this registration statement becomes effective

If the only securities being registered on this form are being offered pursuant to dividend or interest reinvestment plans, please check the following box.

If any of the securities being registered on this form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box.

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a registration statement pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box.

If this Form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer

Accelerated filer

Non-accelerated filer (Do not check if a smaller reporting company)

Smaller reporting company

The Registrant hereby amends this Registration Statement on such date or dates as may be necessary to delay its effective date until the Registrant shall file a further amendment which specifically states that this Registration Statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933, as amended, or until the Registration Statement shall become effective on such date as the Securities and Exchange Commission acting pursuant to said Section 8(a) may determine.

EXPLANATORY NOTE

This Amendment No. 1 (this “Amendment”) to the Registration Statement on Form S-3 (File No. 333-212302) (the “Registration Statement”) of Sorrento Therapeutics, Inc. is being filed solely to re-file Exhibit 23.1 to the Registration Statement, which was previously filed with the Registration Statement. Accordingly, this Amendment consists solely of the facing page, this explanatory note, Item 16 of Part II of the Registration Statement, the signature page, the index to exhibits and Exhibit 23.1. The remainder of the Registration Statement is unchanged and therefore has not been included in this Amendment.

PART II
INFORMATION NOT REQUIRED IN PROSPECTUS

Item 16. Exhibits

<u>Exhibit Number</u>	<u>Description</u>
2.1+	Agreement and Plan of Merger between Sorrento Therapeutics, Inc. and IgDraSol, Inc. dated September 9, 2013 (incorporated by reference to Exhibit 2.1 to the Registrant's Current Report on Form 8-K filed with the SEC on September 11, 2013).
2.2+	Agreement of Merger by and among Sorrento Therapeutics, Inc., Catalyst Merger Sub, Inc., Concoris Biosystems, Corp., Zhenwei Miao and Gang Chen dated as of November 11, 2013 (incorporated by reference to Exhibit 2.1 to the Registrant's Current Report on Form 8-K filed with the SEC on November 14, 2013).
3.1	Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.2 to Form S-3 filed with the SEC on June 24, 2013).
3.2	Certificate of Amendment of the Restated Certificate of Incorporation of Sorrento Therapeutics, Inc. (incorporated by reference to Exhibit 3.1 to the Registrant's Current Report on Form 8-K filed with the SEC on August 1, 2013).
3.3	Bylaws (incorporated by reference to Exhibit 3.2 to the Registrant's Current Report on Form 8-K filed with the SEC on October 23, 2009).
3.4	Certificate of Designation of Rights, Preferences and Privileges of Series A Junior Participating Preferred Stock of Sorrento Therapeutics, Inc. (incorporated by reference to Exhibit 3.1 to Form 8-K filed with the SEC on November 12, 2013).
4.1	Specimen Common Stock Certificate (incorporated by reference to Exhibit 4.1 to the Registrant's Current Report on Form 8-K filed with the SEC on October 23, 2009).
4.2	Form of Convertible Promissory Note (incorporated by reference to Exhibit 4.1 to the Registrant's Current Report on Form 8-K filed with the SEC on October 21, 2013).
4.3	Amended and Restated Rights Agreement, dated as of December 21, 2015 by and between Sorrento Therapeutics, Inc. and Philadelphia Stock Transfer, Inc., as rights agent (incorporated by reference to Exhibit 4.1 to the Registrant's Current Report on Form 8-K filed with the SEC on December 21, 2015).
4.4	Common Stock Purchase Warrant issued to Cambridge Equities, LP. (incorporated by reference to Exhibit 4.4 to the Registrant's Annual Report on Form 10-K filed with the SEC on March 16, 2015).
4.5**	Securities Purchase Agreement, dated as of April 3, 2016, by and among Sorrento Therapeutics, Inc., ABG SRNE Limited and Ally Bridge LB Healthcare Master Fund Limited.
4.6**	Securities Purchase Agreement, dated as of April 3, 2016, by and between Sorrento Therapeutics, Inc. and FREJOY Investment Management Co., Ltd.
4.7**	Securities Purchase Agreement, dated as of April 3, 2016, by and between Sorrento Therapeutics, Inc. and Beijing Shijilongxin Investment Co., Ltd.
4.8**	Securities Purchase Agreement, dated as of April 3, 2016, by and between Sorrento Therapeutics, Inc. and Yuhan Corporation.
4.9**	Form of Common Stock Purchase Warrant issued to investors pursuant to the Securities Purchase Agreement, dated as of April 3, 2016, by and among Sorrento Therapeutics, Inc., ABG SRNE Limited and Ally Bridge LB Healthcare Master Fund Limited.

- 4.10** Form of Common Stock Purchase Warrant issued to investors pursuant to the Securities Purchase Agreement, dated as of April 3, 2016, by and between Sorrento Therapeutics, Inc. and FREJOY Investment Management Co., Ltd. and Securities Purchase Agreement, dated as of April 3, 2016, by and between Sorrento Therapeutics, Inc. and Beijing Shijilongxin Investment Co., Ltd.
- 4.11** Common Stock Purchase Warrant issued to Yuhan Corporation on April 29, 2016.
- 4.12** Voting Agreement, dated as of April 29, 2016, by and between Sorrento Therapeutics, Inc. and Yuhan Corporation.
- 5.1** Opinion of Paul Hastings LLP.
- 23.1* Consent of Mayer Hoffman McCann P.C.
- 23.2** Consent of Paul Hastings LLP is contained in Exhibit 5.1 to the Registration Statement.
- 24.1** Power of Attorney is contained on the signature page to the Registration Statement.

+ Non-material schedules and exhibits have been omitted pursuant to Item 601(b)(2) of Regulation S-K. The Registrant hereby undertakes to furnish supplementally copies of any of the omitted schedules and exhibits upon request by the SEC.

* Filed herewith.

** Previously filed.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, as amended, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this Amendment No. 1 to the Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of San Diego, State of California, on August 8, 2016.

SORRENTO THERAPEUTICS, INC.

By: /s/ Henry Ji, Ph.D.
Henry Ji, Ph.D.
President and Chief Executive Officer

Pursuant to the requirements of the Securities Act of 1933, this Amendment No. 1 to the Registration Statement has been signed by the following persons in the capacities and on the dates indicated.

Signature	Title	Date
<u>/s/ Henry Ji, Ph.D.</u> Henry Ji, Ph.D.	Director, Chief Executive Officer and President <i>(Principal Executive Officer)</i>	August 8, 2016
<u>/s/ Kevin M. Herde</u> Kevin M. Herde	Executive Vice President, Chief Financial Officer <i>(Principal Financial and Accounting Officer)</i>	August 8, 2016
<u>*</u> William S. Marth, Ph.D.	Director	August 8, 2016
<u>Yue Alexander Wu, Ph.D.</u>	Director	
<u>*</u> Kim D. Janda, Ph.D.	Director	August 8, 2016
<u>*</u> David Deming	Director	August 8, 2016
<u>*</u> Jaisim Shah	Director	August 8, 2016

* By: /s/ Henry Ji, Ph.D.
Henry Ji, Ph.D.
Attorney-in-Fact

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* Filed herewith.

** Previously filed.

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in Amendment 1 to the Registration Statement on Form S-3 of Sorrento Therapeutics, Inc. and Subsidiaries, of our report dated March 14, 2016, with respect to the consolidated financial statements and the effectiveness of internal controls over financial reporting, which appears in the Annual Report on Form 10-K for the year ended December 31, 2015, and to the reference to us under the heading “Experts” in this Prospectus which is part of this Registration Statement.

/s/ Mayer Hoffman McCann P.C.
San Diego, California
August 5, 2016