

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, D.C. 20549

**FORM S-3
REGISTRATION STATEMENT**
*UNDER
THE SECURITIES ACT OF 1933*

Sientra, Inc.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

20-5551000
(I.R.S. Employer
Identification Number)

420 South Fairview Avenue, Suite 200
Santa Barbara, CA 93117
(805) 562-3500

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

Jeffrey Nugent
Chief Executive Officer
Sientra, Inc.

420 South Fairview Avenue, Suite 200
Santa Barbara, CA 93117
(805) 562-3500

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

With a copy to:

Paul Little
Chief Financial Officer and Treasurer
Sientra, Inc.
420 South Fairview Avenue, Suite 200
Santa Barbara, CA 93117
Tel: (805) 562-3500

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Approximate date of commencement of proposed sale to the public: From time to time after the effective date of this Registration Statement.

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, a smaller reporting company or an emerging growth company. See definition of "large accelerated filer," "accelerated filer," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer <input type="checkbox"/>	Accelerated filer <input checked="" type="checkbox"/>
Non-accelerated filer <input type="checkbox"/>	Smaller reporting company <input checked="" type="checkbox"/>
	Emerging growth company <input type="checkbox"/>

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of Securities Act.

CALCULATION OF REGISTRATION FEE

Title of Securities to be Registered	Amount to be Registered(1)	Proposed Maximum Offering Price Per Share(2)	Proposed Maximum Aggregate Offering Price(2)	Amount of Registration Fee(2)
Common Stock, par value \$0.01 per share	14,634,147 shares	\$1.98	\$28,975,611.06	\$3,762
Total	14,634,147 shares	\$1.98	\$28,975,611.06	\$3,762

- (1) This Registration Statement shall also cover any additional shares of common stock which become issuable by reason of any stock dividend, stock split or other similar transaction effected without the receipt of consideration which results in an increase in the number of the outstanding shares of common stock of the registrant.
- (2) Estimated solely for the purpose of determining the registration fee pursuant to Rule 457(c) of the rules and regulations under the Securities Act of 1933, as amended, based upon the average of the high and low prices for the registrant's common stock as reported on the NASDAQ Global Market on April 7, 2020.

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.

The information in this prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities and it is not soliciting an offer to buy these securities in any state where the offer or sale is not permitted.

Subject to completion, dated April 10, 2020

PROSPECTUS

sientra.
SIENTRA, INC.

**14,634,147 Shares
Common Stock**

This prospectus relates to an aggregate of up to 14,634,147 shares of our common stock, par value \$0.01 per share, which may be offered for sale from time to time by the selling stockholder named herein. We will not receive any of the proceeds from any sale of our common stock by the selling stockholder.

On March 11, 2020, we entered into a Facility Agreement (the “Facility Agreement”) by and among the Company, as borrower, certain of the Company’s subsidiaries party thereto as guarantors and Deerfield Partners, L.P. (together with its affiliates, “Deerfield”), as agent for itself and the lenders, providing for the sale by the Company to Deerfield of up to \$60.0 million aggregate principal amount of 4.0% unsecured and subordinated convertible notes upon the terms and conditions set forth in the Deerfield Facility Agreement. On March 11, 2020, pursuant to the Deerfield Facility Agreement, we issued a \$60.0 million 4.0% unsecured and subordinated convertible note (the “Convertible Note”) to Deerfield, which Convertible Note matures on the fifth anniversary of the issuance date and is convertible into shares of our common stock at an initial conversion price of \$4.10.

In connection with the Facility Agreement, on March 11, 2020, the Company and Deerfield entered into a Registration Rights Agreement (the “Registration Rights Agreement”). Pursuant to the Registration Rights Agreement, we agreed to prepare and file with the Securities and Exchange Commission a Registration Statement on Form S-3, or such other form as required to effect a registration of any shares of our common stock issued or issuable upon conversion of or pursuant to the Convertible Note (the “Registrable Securities”), covering the resale of the Registrable Securities and such indeterminate number of additional shares of our common stock as may become issuable upon conversion of or otherwise pursuant to the Convertible Note to prevent dilution resulting from certain corporate actions.

The selling stockholder may offer shares of our common stock from time to time in a number of different ways and at varying prices. For more information on possible methods of offer and sale by the selling stockholder, refer to the section of this prospectus entitled “Plan of Distribution.” If any underwriters, dealers or agents are involved in the sale of any of the shares of common stock, their names, and any applicable purchase price, fee, commission or discount arrangement between or among them will be set forth, or will be calculable from the information set forth, in the applicable prospectus supplement. We have agreed to bear all of the expenses incurred in connection with the registration of these shares. The selling stockholder will pay or assume brokerage commissions and similar charges incurred for the sale of shares of our common stock.

The information in this prospectus is accurate as of the date on the front cover. Information incorporated by reference into this prospectus is accurate as of the date of the document from which the information is incorporated. You should not assume that information contained in or incorporated by reference into this prospectus is accurate as of any other date.

Our common stock is listed on the NASDAQ Global Market under the symbol “SIEN.” On April 9, 2020, the closing price of our common stock was \$1.98 per share.

Investing in our securities involves risks. See the section of this prospectus entitled “[Risk Factors](#)” and contained in any applicable prospectus supplement and any related free writing prospectus and under similar sections in the other documents that are incorporated by reference into this prospectus.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this prospectus is _____, 2020

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ABOUT THIS PROSPECTUS

This prospectus is a part of a registration statement that we filed with the Securities and Exchange Commission (SEC) utilizing a “shelf” registration process. This prospectus relates to the possible resale by the selling stockholder of an aggregate of up to 14,634,147 shares of our common stock from time to time in one or more offerings.

The selling stockholder may offer and sell, from time to time, an aggregate of up to 14,634,147 shares of our common stock under the prospectus. If necessary, the specific manner in which the shares of our common stock may be offered and sold will be described in a supplement to this prospectus. We may also add, update or change in a prospectus supplement any information contained in this prospectus. To the extent that any statement made in a prospectus supplement is inconsistent with statements made in this prospectus, the statements made in this prospectus will be deemed modified or superseded by those made in the prospectus supplement. Before you make any investment decision, you should read this prospectus, any accompanying prospectus supplement, any post-effective amendments to the registration statement of which this prospectus is a part, the documents incorporated by reference in such registration statement, and the additional information described under “Where You Can Find More Information; Incorporation by Reference.”

Neither we nor the selling stockholder have authorized any broker, dealer or other person to give any information or to make any representation other than those contained or incorporated by reference in this prospectus and any accompanying prospectus supplement. You must not rely upon any information or representation not contained or incorporated by reference in this prospectus or any accompanying prospectus supplement. This prospectus and any accompanying prospectus supplement do not constitute an offer to sell or the solicitation of an offer to buy any securities other than the registered securities to which they relate, nor do this prospectus and any accompanying prospectus supplement constitute an offer to sell or the solicitation of an offer to buy securities in any jurisdiction to any person to whom it is unlawful to make such offer or solicitation in such jurisdiction. You should not assume that the information contained in this prospectus and any accompanying prospectus supplement is accurate on any date subsequent to the date set forth on the front of the document or that any information incorporated by reference is correct on any date subsequent to the date of the document incorporated by reference, even though this prospectus and any accompanying prospectus supplement is delivered or securities are sold on a later date. Our business, financial condition, results of operations and prospects may have changed since those dates.

“Sientra”, “Sientra Platinum20”, “Sientra Full Circle”, “OPUS”, “Allox”, “Allox2”, “BIOCORNEUM”, “Curve”, “Dermaspan”, “Luxe”, “Softspan”, “Silishield”, “miraDry”, “Miramar Labs”, “miraDry and Design”, “miraDry Fresh”, “bioTip”, “The Sweat Stops Here”, “No Sweat No Stress”, “Sweat Less Live More”, “Drop Design”, “miraWave”, “miraSmooth”, “miraFresh”, “freshRewards”, “freshNet”, “freshEquity”, “freshConnect”, and “ML Stylized mark” are trademarks of our company. Our logo and our other trade names, trademarks and service marks appearing in this document are our property. Other trade names, trademarks and service marks appearing in this document are the property of their respective owners. Solely for convenience, our trademarks and trade names referred to in the document, appear without the TM or the (R) symbol, but those references are not intended to indicate, in any way, that we will not assert, to the fullest extent under applicable law, our rights, or the rights of the applicable licensor to these trademarks and trade names.

SUMMARY

This summary highlights selected information from this prospectus and the documents incorporated herein by reference and does not contain all of the information that you need to consider in making your investment decision. You should carefully read the entire prospectus, including the risks of investing in our securities discussed under “Risk Factors” beginning on page 4 of this prospectus, the information incorporated herein by reference, including our financial statements, and the exhibits to the registration statement of which this prospectus is a part. All references in this prospectus to “we,” “us,” “our,” “Sientra,” the “Company” and similar designations refer to Sientra, Inc. and its consolidated subsidiaries, unless otherwise indicated or as the context otherwise requires.

Business Overview

We are a medical aesthetics company committed to making a difference in patients’ lives by enhancing their body image, growing their self-esteem and restoring their confidence. We were founded to provide greater choices to board-certified plastic surgeons and patients in need of medical aesthetics products. We have developed a broad portfolio of products with technologically differentiated characteristics, supported by independent laboratory testing and strong clinical trial outcomes. We sell our breast implants for augmentation procedures exclusively to board-certified and board-admissible plastic surgeons and tailor our customer service offerings to their specific needs, which we believe helps secure their loyalty and confidence. We sell our breast tissue expanders for reconstruction procedures predominantly to hospitals and surgery centers, and our BIOCORNEUM scar management products to plastic surgeons, dermatologists and other specialties.

On June 11, 2017, we entered into a Merger Agreement with miraDry (formerly Miramar Labs) pursuant to which we commenced a tender offer to purchase all of the outstanding shares of miraDry’s common stock. Pursuant to the transaction, which closed on July 25, 2017 we added the miraDry System, the only FDA-cleared device to reduce underarm sweat, odor and hair of all colors to our aesthetics portfolio. Following our acquisition of miraDry in July 2017, we began selling the miraDry System, consisting of a console and a handheld device, and consumable single-use bioTips. As a result of the miraDry acquisition, we determined that we will conduct our business in two operating segments: Breast Products and miraDry. The Breast Products segment focuses on sales of our breast implants, tissue expanders and scar management products under the brands OPUS, AlloX2, Dernaspan, Softspan and BIOCORNEUM. The miraDry segment focuses on sales of the miraDry System and bioTips.

We sell both our Breast Products and miraDry products in the U.S. through a direct sales organization, which as of December 31, 2019, consisted of 93 employees, including 78 sales representatives and 15 sales managers. Additionally, we also sell our miraDry System in several international markets where we leverage a combination of distributor relationships and direct sales efforts. As of December 31, 2019, our international operations were supported by 7 sales representatives, as well as a number of consultants supporting both direct sales efforts and distributor relationships.

We commenced sales of our breast implants in the United States in the second quarter of 2012. Our Breast Products segment net sales were \$46.4 million, \$37.0 million, and \$31.5 million for the years ended December 31, 2019, 2018, and 2017, respectively. For our miraDry segment, we generate revenues from sales of our miraDry System and from the sales of bioTips which are required for use for each miraDry procedure performed. We generated net sales of \$37.3 million for the year ended December 31, 2019, \$31.1 million for the year ended December 31, 2018, and \$5.1 million for the year ended December 31, 2017 from the acquisition date on July 25, 2017.

Corporate Information

We incorporated in Delaware on August 29, 2003 under the name Juliet Medical, Inc. and subsequently changed our name to Sientra, Inc. in April 2007. Our principal executive offices are located at 420 South Fairview Avenue, Suite 200, Santa Barbara, California, 93117, and our telephone number is (805) 562-3500. Our website is located at www.sientra.com, and our investor relations website is located at <http://investors.sientra.com>. The information found on our website is not part of this prospectus.

THE OFFERING

Securities that may be Offered by the Selling stockholder

Up to an aggregate of 14,634,147 shares of our common stock. See the section of this prospectus entitled “Selling stockholder”.

Use of Proceeds

We will not receive any of the proceeds from the sale or other disposition of shares of our common stock by the selling stockholder pursuant to this prospectus. See the section of this prospectus entitled “Use of Proceeds”.

NASDAQ Global Select Market Symbol

SIEN

Risk Factors

See the section of this prospectus entitled “Risk Factors”.

On March 11, 2020, we entered into a Facility Agreement (the “Facility Agreement”) by and among the Company, as borrower, certain of the Company’s subsidiaries party thereto as guarantors and Deerfield Partners, L.P. (together with its affiliates, “Deerfield”), as agent for itself and the lenders, providing for the sale by the Company to Deerfield of up to \$60.0 million aggregate principal amount of 4.0% unsecured and subordinated convertible notes upon the terms and conditions set forth in the Deerfield Facility Agreement. On March 11, 2020, pursuant to the Deerfield Facility Agreement, we issued a \$60.0 million 4.0% unsecured and subordinated convertible note (the “Convertible Note”) to Deerfield, which Convertible Note matures on the fifth anniversary of the issuance date and is convertible into shares of our common stock at an initial conversion price of \$4.10.

In connection with the Facility Agreement, on March 11, 2020, the Company and Deerfield entered into a Registration Rights Agreement (the “Registration Rights Agreement”). Pursuant to the Registration Rights Agreement, we agreed to prepare and file with the Securities and Exchange Commission a Registration Statement on Form S-3, or such other form as required to effect a registration of any shares of our common stock issued or issuable upon conversion of or pursuant to the Convertible Note (the “Registrable Securities”), covering the resale of the Registrable Securities and such indeterminate number of additional shares of our common stock as may become issuable upon conversion of or otherwise pursuant to the Convertible Note to prevent dilution resulting from certain corporate actions.

The filing of this shelf registration statement is being made pursuant to the Registration Rights Agreement. For more information, refer to the section of this prospectus entitled “Selling stockholder.”

RISK FACTORS

Investment in our securities involves risks. Prior to making a decision about investing in our securities, you should consider carefully all of the information included and incorporated by reference or deemed to be incorporated by reference in this prospectus or the applicable prospectus supplement, including the risk factors incorporated by reference herein from our Annual Report on Form 10-K for the year ended December 31, 2019, as updated by annual, quarterly and other reports and documents we file with the Securities and Exchange Commission, or the SEC, after the date of this prospectus and that are incorporated by reference herein or in the applicable prospectus supplement. Each of these risk factors could have a material adverse effect on our business, results of operations, financial position or cash flows, which may result in the loss of all or part of your investment.

A pandemic, epidemic or outbreak of an infectious disease, such as COVID-19, or coronavirus, may materially and adversely affect our business, our operations and our financial results.

The recent outbreak of COVID-19 originated in Wuhan, China, in December 2019 and has since spread to multiple countries, including the United States. On March 11, 2020, the World Health Organization declared COVID-19 a pandemic. Pandemics, like COVID-19, or other outbreaks of infectious disease may result in a period of business disruption, including reduced sales as patients might cancel or defer elective procedures or otherwise avoid medical facilities, resulting in reduced patient volumes and operating revenues. For example, the spread of COVID-19 has resulted in travel restrictions which impact medical tourism and our sales professionals' ability to travel. In addition, hospitals may limit access for non-patients, including our sales professionals, which could negatively impact our access to physicians. A significant percentage of our products are utilized in elective surgeries or procedures, which may be deferred or avoided altogether due to COVID-19 outbreak. Governmental agencies and hospital administrators may also instruct hospitals to postpone some elective procedures in preparation for COVID-19-related hospitalizations. The spread of COVID-19, or another infectious disease, could also result in delays or disruptions in our supply chain or adversely affect our manufacturing facilities and personnel. The COVID-19 outbreak continues to be fluid and uncertain, making it difficult to forecast the final impact it could have on our future operations or financial results.

SPECIAL NOTE REGARDING FORWARD-LOOKING INFORMATION

This prospectus and the documents incorporated herein by reference contain forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. These statements are based on our management's current beliefs, expectations and assumptions about future events, conditions and results and on information currently available to us. Discussions containing these forward-looking statements may be found, among other places, in the Sections entitled "Business Overview," "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" incorporated by reference from our most recent Annual Report on Form 10-K and in our Quarterly Report on Form 10-Q, as well as any amendments thereto, filed with the SEC. This prospectus and the documents incorporated by reference herein also contain estimates and other statistical data made by independent parties and by us relating to market size and growth and other data about our industry. This data involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. In addition, projections, assumptions and estimates of our future performance and the future performance of the markets in which we operate are necessarily subject to a high degree of uncertainty and risk.

All statements, other than statements of historical fact, included or incorporated herein regarding our strategy, future operations, financial position, future revenues, projected costs, plans, prospects and objectives are forward-looking statements. Words such as "expect," "anticipate," "intend," "plan," "believe," "seek," "estimate," "think," "may," "could," "will," "would," "should," "continue," "potential," "likely," "opportunity" and similar expressions or variations of such words are intended to identify forward-looking statements, but are not the exclusive means of identifying forward-looking statements. Additionally, statements concerning future matters such as our expectations of business and market conditions, development and commercialization of new products, enhancements of existing products or technologies, and other statements regarding matters that are not historical are forward-looking statements. Such statements are based on currently available operating, financial and competitive information and are subject to various risks, uncertainties and assumptions that could cause actual results to differ materially from those anticipated or implied in our forward-looking statements due to a number of factors including, but not limited to, those set forth above under the section entitled "Risk Factors" in this prospectus and any accompanying prospectus supplement. Given these risks, uncertainties and other factors, many of which are beyond our control, you should not place undue reliance on these forward-looking statements.

Except as required by law, we assume no obligation to update these forward-looking statements publicly, or to revise any forward-looking statements to reflect events or developments occurring after the date of this prospectus, even if new information becomes available in the future.

USE OF PROCEEDS

We will not receive any of the proceeds from the sale or other disposition of shares of our common stock by the selling stockholder pursuant to this prospectus.

DESCRIPTION OF CAPITAL STOCK

The following description of our capital stock, together with any additional information included in any applicable prospectus supplements or any free writing prospectuses that we may authorize to be delivered to you, summarizes the material terms and provisions of our capital stock that the selling stockholder may offer under this prospectus. While the terms summarized below will apply generally to any future capital stock that the selling stockholder may offer, the particular terms of any class or series of these securities will be described in more detail in the applicable prospectus supplement or free writing prospectus. For the complete terms of our capital stock, please refer to our certificate of incorporation and our bylaws that are incorporated by reference into the registration statement of which this prospectus is a part or may be incorporated by reference in this prospectus or any prospectus supplement. The terms of these securities may also be affected by the Delaware General Corporation Law, or the DGCL. The summary below and that contained in any prospectus supplement or free writing prospectus are qualified in their entirety by reference to our certificate of incorporation and our bylaws.

Common Stock

We are authorized to issue 200,000,000 shares of common stock, of which 49,985,057 shares were issued and outstanding as of March 4, 2020. The holders of common stock possess exclusive voting rights in us, except to the extent our board of directors specifies voting power with respect to any other class of securities issued in the future. Each holder of our common stock is entitled to one vote for each share held of record on each matter submitted to a vote of stockholders, including the election of directors. Stockholders do not have any right to cumulate votes in the election of directors.

Subject to preferences that may be granted to the holders of preferred stock, each holder of our common stock is entitled to share ratably in distributions to stockholders and to receive ratably such dividends as may be declared by our board of directors out of funds legally available therefor. In the event of our liquidation, dissolution or winding up, the holders of our common stock will be entitled to receive, after payment of all of our debts and liabilities and of all sums to which holders of any preferred stock may be entitled, the distribution of any of our remaining assets. Holders of our common stock have no conversion, exchange, sinking fund, redemption or appraisal rights (other than such as may be determined by our board of directors in its sole discretion) and have no preemptive rights to subscribe for any of our securities.

All of the outstanding shares of our common stock are, and the shares of common stock issued upon the conversion of any securities convertible into our common stock will be, fully paid and non-assessable. The shares of common stock offered by this prospectus or upon the conversion of any preferred stock or debt securities or exercise of any warrants offered pursuant to this prospectus, when issued and paid for, will also be, fully paid and non-assessable.

Our common stock is listed on the Nasdaq Global Select Market under the symbol "SIEN."

Preferred Stock

We are authorized to issue 10,000,000 shares of preferred stock, none of which were issued and outstanding as of March 4, 2020. Our board is authorized to classify or reclassify any unissued portion of our authorized shares of preferred stock to provide for the issuance of shares of other classes or series, including preferred stock in one or more series. We may issue preferred stock from time to time in one or more classes or series, with the exact terms of each class or series established by our board. Without seeking stockholder approval, our board may issue preferred stock with voting and other rights that could adversely affect the voting power of the holders of our common stock. Additionally, the issuance of preferred stock may have the effect of decreasing the market price of the common stock.

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The rights, preferences, privileges and restrictions of the preferred stock of each series will be fixed by the certificate of designation relating to each series. A prospectus supplement relating to each series will specify the terms of the preferred stock, including, but not limited to:

- the distinctive designation and the maximum number of shares in the series;
- the terms on which dividends, if any, will be paid;
- the voting rights, if any, on the shares of the series;
- the terms and conditions, if any, on which the shares of the series shall be convertible into, or exchangeable for, shares of any other class or classes of capital stock;
- the terms on which the shares may be redeemed, if at all;
- the liquidation preference, if any; and
- any or all other preferences, rights, restrictions, including restrictions on transferability, and qualifications of shares of the series.

The issuance of preferred stock may delay, deter or prevent a change in control.

We will describe the specific terms of a particular series of preferred stock in the prospectus supplement relating to that series. The description of preferred stock above and the description of the terms of a particular series of preferred stock in the prospectus supplement are not complete. You should refer to the applicable certificate of designation for complete information. The prospectus supplement will contain a description of U.S. federal income tax consequences relating to the preferred stock.

Possible Anti-Takeover Effects of Delaware Law and our Certificate of Incorporation and Bylaws

Provisions of the DGCL and our certificate of incorporation and bylaws could make it more difficult to acquire us by means of a tender offer, a proxy contest or otherwise, or to remove incumbent officers and directors. These provisions, summarized below, are expected to discourage certain types of coercive takeover practices and takeover bids that our board of directors may consider inadequate and to encourage persons seeking to acquire control of us to first negotiate with our board of directors. We believe that the benefits of increased protection of our ability to negotiate with the proponent of an unfriendly or unsolicited proposal to acquire or restructure us outweigh the disadvantages of discouraging takeover or acquisition proposals because, among other things, negotiation of these proposals could result in an improvement of their terms.

Delaware Anti-Takeover Statute

We are subject to Section 203 of the DGCL, an anti-takeover statute. In general, Section 203 of the DGCL prohibits a publicly held Delaware corporation from engaging in a “business combination” with an “interested stockholder” for a period of three years following the time the person became an interested stockholder, unless the business combination or the acquisition of shares that resulted in a stockholder becoming an interested stockholder is approved in a prescribed manner. Generally, a “business combination” includes a merger, asset or stock sale or other transaction resulting in a financial benefit to the interested stockholder. Generally, an “interested stockholder” is a person who, together with affiliates and associates, owns (or within three years prior to the determination of interested stockholder status did own) 15% or more of a corporation’s voting stock. The existence of this provision would be expected to have an anti-takeover effect with respect to transactions not approved in advance by our board of directors, including discouraging attempts that might result in a premium over the market price for the shares of common stock held by our stockholders.

Classified Board

Our certificate of incorporation and our bylaws provide that our board of directors is divided into three classes, each comprised of three directors. The directors designated as a Class I directors have a term expiring at our

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annual meeting of stockholders in 2021. The directors designated as a Class II directors have a term expiring at our annual meeting of stockholders in 2022. The directors designated as Class III directors have a term expiring at our annual meeting of stockholders in 2020. Directors for each class will be elected at the annual meeting of stockholders held in the year in which the term for that class expires and thereafter will serve for a term of three years. At any meeting of stockholders for the election of directors at which a quorum is present, the election will be determined by a plurality of the votes cast by the stockholders entitled to vote at the election. Under the classified board provisions, it will take at least two elections of directors for any individual or group to gain control of our board. Accordingly, these provisions could discourage a third party from initiating a proxy contest, making a tender offer or otherwise attempting to gain control of us.

Removal of Directors

Our bylaws provide that our stockholders may only remove our directors with cause and with the affirmative vote of the holder of at least two-third of our voting stock then outstanding.

Amendment

Our certificate of incorporation and our bylaws provide that the affirmative vote of the holders of at least two-thirds of our voting stock then outstanding is required to amend any provision of either document.

Size of Board and Vacancies

Our certificate of incorporation provide that the number of directors on our board of directors is fixed exclusively by our board of directors. Newly created directorships resulting from any increase in our authorized number of directors will be filled by a majority of our board of directors then in office, provided that a majority of the entire board of directors, or a quorum, is present and any vacancies in our board of directors resulting from death, resignation, retirement, disqualification, removal from office or other cause will be filled generally by the majority vote of our remaining directors in office, even if less than a quorum is present.

Special Stockholder Meetings

Our bylaws provide that only the Chairman of our board of directors, our Chief Executive Officer or our board of directors pursuant to a resolution adopted by a majority of the entire board of directors may call special meetings of our stockholders.

Stockholder Action by Unanimous Written Consent

Our certificate of incorporation expressly eliminates the right of our stockholders to act by written consent other than by unanimous written consent. Stockholder action must take place at the annual or a special meeting of our stockholders or be effected by unanimous written consent.

Requirements for Advance Notification of Stockholder Nominations and Proposals

Our bylaws establish advance notice procedures with respect to stockholder proposals and nomination of candidates for election as directors other than nominations made by or at the direction of our board of directors or a committee of our board of directors.

No Cumulative Voting

The DGCL provides that stockholders are denied the right to cumulate votes in the election of directors unless our certificate of incorporation provides otherwise. Our certificate of incorporation does not provide for cumulative voting.

Undesignated Preferred Stock

The authority that will be possessed by our board of directors to issue preferred stock could potentially be used to discourage attempts by third parties to obtain control of our company through a merger, tender offer, proxy contest or otherwise by making such attempts more difficult or more costly. Our board of directors may issue preferred stock with voting rights or conversion rights that, if exercised, could adversely affect the voting power of the holders of our common stock.

Authorized but Unissued Shares

Our authorized but unissued shares of common stock and preferred stock will be available for future issuance without stockholder approval. We may use additional shares for a variety of purposes, including future public offerings to raise additional capital, to fund acquisitions and as employee compensation. The existence of authorized but unissued shares of common stock and preferred stock could render more difficult or discourage an attempt to obtain control of us by means of a proxy contest, tender offer, merger or otherwise.

The above provisions may deter a hostile takeover or delay a change in control or management of us.

Choice of Forum

Our amended and restated certificate of incorporation and amended and restated bylaws provides that unless we consent in writing to the selection of an alternative forum, the Court of Chancery of the State of Delaware will be the exclusive forum for: (a) any derivative action or proceeding brought on our behalf; (b) any action asserting a breach of fiduciary duty owed by any of our directors, officers or other employees to us or our stockholders; (c) any action asserting a claim against us arising under the Delaware General Corporation Law, our amended and restated certificate of incorporation or our amended and restated bylaws; or (d) any action asserting a claim against us that is governed by the internal affairs doctrine. These provisions do not apply to actions arising under the Securities Act or the Exchange Act, or any claim for which the federal courts have exclusive jurisdiction.

Further, the Company undertakes to provide the following in future Exchange Act periodic reports with respect to the discussion of the actions for which the Court of Chancery will be the exclusive forum:

These provisions does not apply to actions arising under the Securities Act or the Exchange Act, or any claim for which the federal courts have exclusive jurisdiction.

Transfer Agent and Registrar

The transfer agent and registrar for our capital stock is Computershare Trust Company, N.A.

SELLING STOCKHOLDER

This prospectus relates to the possible resale of up to 14,634,147 shares of our common stock issuable upon the conversion of the 4.0% unsecured and subordinated Convertible Note in the original principal amount of \$60,000,000 held by the selling stockholder set forth in the table below.

The following table presents information regarding the selling stockholder, and the shares of common stock that they may offer and sell from time to time under this prospectus. This table is prepared based on information supplied to us by the selling stockholder. As used in this prospectus, the term “selling stockholder” includes any donees, pledges, transferees or other successors in interest selling shares received after the date of this prospectus from a selling stockholder as a gift, pledge, or other non-sale related transfer. The number of shares in the column “Number of Shares Being Offered” represents all of the shares that the selling stockholder may offer under this prospectus. The selling stockholder may sell some, all or none of their respective shares of common stock. We do not know how long the selling stockholder will hold their respective shares before selling them, and we currently have no agreements, arrangements or understandings with the selling stockholder regarding the sale of any of the shares.

Beneficial ownership is determined in accordance with Rule 13d-3(d) promulgated by the SEC under the Securities Exchange Act of 1934, as amended.

The percentages of shares of common stock beneficially owned after the offering shown in the table below are based on an aggregate of 49,985,057 shares of our common stock outstanding on March 4, 2020.

<u>Selling Stockholder(1)</u>	<u>Shares Beneficially Owned Prior to the Offering</u>	<u>Number of Shares Being Offered(2)</u>	<u>Shares Beneficially Owned After the Offering</u>	<u>Percentage</u>
Deerfield Partners, L.P.(3)	18,861,827(4)(5)	14,634,147	4,227,680	6.54%

- (1) Additional information concerning named selling stockholders or pledgees, donees, transferees or other successors-in-interest of any such stockholder may be set forth in an additional prospectus supplement to the prospectus.
- (2) The number of shares offered hereby consists solely of the shares issuable upon conversion of the Convertible Note. The number of shares beneficially owned after giving effect to this offering assumes that the selling stockholder will sell all of the shares offered under this prospectus supplement and the Prospectus and will not sell any other shares. We cannot, however, predict what or how many shares will be sold by the selling stockholder, including sales of shares of our common stock pursuant to an exemption from registration.
- (3) Unless otherwise indicated, the business address of each holder is: c/o Deerfield Management Company, L.P., 780 Third Avenue, 37th Floor, New York, NY 10017. Deerfield Mgmt, L.P. is the general partner of Deerfield Partners, L.P. Deerfield Management Company, L.P. is the investment manager of Deerfield Partners, L.P. Mr. James E. Flynn is the sole member of the general partner of each of Deerfield Mgmt, L.P. and Deerfield Management Company, L.P. Each of Deerfield Mgmt, L.P., Deerfield Management Company, L.P. and Mr. James E. Flynn may be deemed to beneficially own the shares of common stock of the Company beneficially owned by Deerfield Partners, L.P.
- (4) Comprised of 4,227,680 shares of common stock and 14,634,147 shares of common stock issuable upon conversion of the Convertible Notes.
- (5) Under the terms of the Convertible Note, the number of shares of our common stock that may be acquired by a selling stockholder upon any conversion thereof is limited to the extent necessary to ensure that, following such exercise or conversion, such selling stockholder would not, together with its affiliates and any other persons or entities whose beneficial ownership of our common stock would be aggregated with such selling stockholder for purposes of Section 13(d) of the Exchange Act, beneficially own in excess of 4.985% of the total number of shares of our common stock then issued and outstanding, or the 4.985% blocker. For purposes of the 4.985% blocker, beneficial ownership is determined in accordance with Section 13(d) of the Exchange Act and the rules and regulations promulgated thereunder.

PLAN OF DISTRIBUTION

The selling stockholder, including donees, pledgees, transferees, permitted assigns or other successors in interest (including transferees that receive shares of common stock from the selling stockholder under this prospectus), may use any one or more of the following methods (or in any combination) to sell, distribute or otherwise transfer the securities from time to time:

- through underwriters or dealers for resale to the public or to investors;
- directly to one or more purchasers;
- through agents;
- in “at the market” offerings, within the meaning of Rule 415(a)(4) of the Securities Act, to or through a market maker or into an existing trading market on an exchange or otherwise;
- in block trades;
- through public or privately negotiated transactions; or
- any other method permitted pursuant to applicable law.

In particular, the selling stockholder may offer and sell, distribute or otherwise transfer from time to time at a fixed price or prices, which may be changed; at market prices prevailing at the time of sale; at prices related to prevailing market prices; at varying prices determined at the time of sale; or at negotiated prices. These offers and sales or distributions may be effected from time to time in one or more transactions, including:

- on any national securities exchange or quotation service on which our common stock may be listed or quoted at the time of sale or in the over-the-counter market;
- in transactions otherwise than on a national securities exchange or quotation service or in the over-the-counter market;
- in block transactions in which the broker or dealer so engaged will attempt to sell the shares of common stock as agent but may position and resell a portion of the block as principal to facilitate the transaction, or in crosses, in which the same broker acts as an agent on both sides of the trade;
- in ordinary brokerage transactions in which the broker-dealer solicits purchasers;
- through purchases by a broker-dealer as principal and resale by the broker-dealer for its account;
- through the writing of options, convertible securities or other contracts or agreements to be satisfied by the delivery of shares of common stock;
- through short sales;
- through privately negotiated transactions;
- through an exchange distribution in accordance with the rules of the applicable exchange;
- broker-dealers may agree with any selling stockholder to sell a specified number of its shares at a stipulated price per share;
- through the lending of such securities;
- by pledge to secure debts and other obligations or on foreclosure of a pledge;
- through the distribution of such securities by any selling stockholder to its stockholders;
- through a combination of any of the above methods; or
- through any other method permitted pursuant to applicable law.

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The selling stockholder may also sell shares in open market transactions under Rule 144 under the Securities Act, if available, rather than under this prospectus.

The selling stockholder may engage brokers and dealers, and any brokers or dealers may arrange for other brokers or dealers to participate in sales. Broker-dealers may receive commissions or discounts from the selling stockholder (or, if any broker-dealer acts as agent for the purchaser of shares, from the purchaser) in amounts to be negotiated. The selling stockholder does not expect these commissions and discounts to exceed what is customary in the types of transactions involved. Any profits on the resale of shares of our common stock by a broker-dealer acting as principal might be deemed to be underwriting discounts or commissions under the Securities Act. Discounts, concessions, commissions and similar selling expenses, if any, attributable to the sale of shares will be borne by the selling stockholder. The selling stockholder may agree to indemnify any agent, dealer or broker-dealer that participates in transactions involving sales of the shares if liabilities are imposed on that person under the Securities Act.

Any broker-dealers or agents that are involved in selling the shares of our common stock may be deemed to be “underwriters” within the meaning of the Securities Act in connection with such sales. In such event, any commissions received by such broker-dealers or agents and any profit on the resale of the shares of our common stock purchased by them may be deemed to be underwriting commissions or discounts under the Securities Act.

In connection with sales of our common stock under this prospectus, the selling stockholder may enter into hedging transactions with broker-dealers or other financial institutions. These broker-dealers or financial institutions may in turn engage in short sales of shares of our common stock, short and deliver such shares to close out such short positions, or loan or pledge the shares to broker-dealers that may in turn sell such shares. The selling stockholder may also sell shares short and deliver these securities to close out its short positions, or loan or pledge the shares to broker-dealers that in turn may sell these securities.

The selling stockholders may also enter into option or other transactions with broker-dealers or other financial institutions or the creation of one or more derivative securities which require the delivery to such broker-dealer or other financial institution of shares offered by this prospectus, which shares such broker-dealer or other financial institution may resell pursuant to this prospectus (as amended or supplemented to reflect such transaction).

The selling stockholder may from time to time pledge or grant a security interest in some or all of the shares of our common stock owned by them and, if they default in the performance of their secured obligations, the pledgees or secured parties may offer and sell the shares of our common stock from time to time under this prospectus or an amendment to the registration statement or supplement to the prospectus under Rule 424(b)(3) or other applicable provision of the Securities Act amending the list of selling stockholder to include the pledgee, transferee or other successors in interest as selling stockholder under this prospectus, as appropriate.

The selling stockholder also may transfer the shares of our common stock in other circumstances, in which case the transferees, pledgees or other successors in interest will be the selling beneficial owners for purposes of the prospectus and may sell the shares of common stock from time to time under the prospectus or an amendment to the registration statement or supplement to the prospectus under Rule 424(b)(3) or other applicable provision of the Securities Act amending the list of selling stockholder to include the pledgee, transferee or other successors in interest as selling stockholder under the prospectus, as appropriate.

We have agreed to bear all of the expenses incurred in connection with the registration of these shares, including the fees and expenses of counsel to the selling stockholders up to \$25,000 per registration. The selling will be required to bear the expenses of any underwriting discounts, fees, selling commissions and transfer taxes incurred for the sale of shares of our common stock.

We have agreed to indemnify the selling stockholder against certain losses, claims, damages and liabilities, including liabilities under the Securities Act. Agents, dealers and underwriters may be entitled under agreements

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entered into with the selling stockholder to indemnification by the selling stockholder against certain civil liabilities, including liabilities under the Securities Act, or to contribution with respect to payments which such agents, dealers or underwriters may be required to make in respect thereof. Agents, dealers and underwriters may be customers of, engage in transactions with, or perform services on the selling stockholder' behalf.

The anti-manipulation rules of Regulation M under the Exchange Act may apply to sales of our common stock and activities of the selling stockholder.

We have agreed with the selling stockholder to keep the registration statement of which this prospectus constitutes a part effective until the earlier of the date on which the selling stockholder has publicly sold all of the shares of our common stock covered by this prospectus or the date that all of the shares of our common stock covered by this prospectus (in the opinion of counsel to the selling stockholder) may be immediately sold to the public without registration or restriction (including without limitation as to volume by each holder thereof), and without compliance with any "current public information" requirement, pursuant to Rule 144 under the Securities Act.

To the extent permitted by applicable law, the plan of distribution may be modified in a prospectus supplement or otherwise.

LEGAL MATTERS

The validity of the securities offered by this prospectus will be passed upon for us by DLA Piper LLP (US), San Diego, California.

EXPERTS

The consolidated financial statements, and the related financial statement schedule, of Sientra, Inc. as of December 31, 2019 and 2018, and for each of the years in the three-year period ended December 31, 2019, and management's assessment of the effectiveness of internal control over financial reporting as of December 31, 2019 have been incorporated by reference herein, and in the registration statement, in reliance upon the reports of KPMG LLP, independent registered public accounting firm, incorporated by reference herein, and upon the authority of said firm as experts in accounting and auditing.

The audit report covering the December 31, 2019 financial statements refers to a change in the method of accounting for leases effective January 1, 2019 due to the adoption of the Accounting Standards Update, Leases (Topic 842).

The audit report on the effectiveness of internal control over financial reporting as of December 31, 2019, contains an explanatory paragraph that states the Company acquired certain assets from Vesta Intermediate Funding, Inc. (Vesta) during 2019 and management excluded from its assessment of the effectiveness of the Company's internal control over financial reporting as of December 31, 2019, Vesta's internal control over financial reporting associated with total assets of \$21.3 million included in the consolidated financial statements of the Company as of and for the year ended December 31, 2019. The audit report on the on the effectiveness of internal control over financial reporting also excluded an evaluation of the internal control over financial reporting of Vesta.

The audit report on the effectiveness of internal control over financial reporting as of December 31, 2019, expresses an opinion that Sientra, Inc. did not maintain effective internal control over financial reporting as of December 31, 2019 because of the effect of a material weakness on the achievement of the objectives of the control criteria and contains an explanatory paragraph that states the control environment was ineffective in holding individuals accountable for the operation of their internal control responsibilities. This control failure prevented the effective operation of controls over goodwill and intangible asset impairment, including the underlying financial data, calculations and assumptions supporting the forecasted financial information utilized to measure the fair value of the reporting unit, intangible assets, and the associated impairment charges.

WHERE YOU CAN FIND ADDITIONAL INFORMATION

We are a reporting company and file annual, quarterly and current reports, proxy statements and other information with the SEC. We have filed with the SEC a registration statement on Form S-3 under the Securities Act with respect to the securities we are offering under this prospectus. This prospectus does not contain all of the information set forth in the registration statement and the exhibits to the registration statement. For further information with respect to us and the securities we are offering under this prospectus, we refer you to the registration statement and the exhibits and schedules filed as a part of the registration statement. The SEC maintains an internet site that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC, where our SEC filings are also available. The address of the SEC's web site is <http://www.sec.gov>. We maintain a website at <http://www.sientra.com>. Information contained in or accessible through our website does not constitute a part of this prospectus.

INCORPORATION OF CERTAIN INFORMATION BY REFERENCE

The SEC allows us to “incorporate by reference” information that we file with it into this prospectus, which means that we can disclose important information to you by referring you to those documents. The information incorporated by reference is an important part of this prospectus. Information in this prospectus supersedes information incorporated by reference that we filed with the SEC prior to the date of this prospectus, while information that we file later with the SEC will automatically update and supersede the information in this prospectus. We incorporate by reference into this registration statement and prospectus the following documents, and any future filings we will make with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act after the date of the initial registration statement but prior to effectiveness of the registration statement and after the date of this prospectus but prior to the termination of the offering of the securities covered by this prospectus (other than current reports or portions thereof furnished under Item 2.02 or Item 7.01 of Form 8-K):

- Our Annual Report on [Form 10-K](#) for the year ended December 31, 2019, filed with the SEC on March 16, 2020, including the information specifically incorporated by reference into the Annual Report on Form 10-K from our definitive proxy statement for the 2020 Annual Meeting of Stockholders;
- Our Current Reports on Form 8-K filed with the SEC on [January 13, 2020](#), [March 11, 2020](#), and [March 12, 2020](#); and
- The description of our common stock contained in our registration statement on [Form 8-A](#) filed with the SEC on October 24, 2014, and any amendment or report filed with the SEC for the purpose of updating the description.

We will provide each person, including any beneficial owner, to whom a prospectus is delivered, a copy of any or all of the information that has been incorporated by reference into this prospectus but not delivered with this prospectus upon written or oral request at no cost to the requester. Requests should be directed to: Sientra, Inc., 420 South Fairview Avenue, Suite 200, Santa Barbara, CA 93117, Telephone: (805) 562-3500.

sientra.

14,634,147 Shares

Common Stock

Prospectus

, 2020

PART II
INFORMATION NOT REQUIRED IN PROSPECTUS

Other Expenses of Issuance and Distribution

The following table sets forth the various expenses to be incurred in connection with the registration of the securities being registered hereby, all of which will be borne by the registrant.

Securities and Exchange Commission registration fee	\$ 3,762
Legal fees and expenses	25,000
Accounting fees and expenses	7,500
Printing expenses	4,000
Total	\$ 40,262

Indemnification of Officers and Directors

Section 145 of the DGCL authorizes a court to award or a corporation's board of directors to grant indemnification to directors and officers in terms sufficiently broad to permit such indemnification under certain circumstances for liabilities (including reimbursement for expenses incurred) arising under the Securities Act of 1933, as amended, or the Securities Act.

Our certificate of incorporation includes a provision that, to the fullest extent permitted by the DGCL, eliminates the personal liability of our directors for monetary damages for breach of fiduciary duty as a director. In addition, together our certificate of incorporation and our bylaws require us to indemnify, to the fullest extent permitted by law, any person made or threatened to be made a party to an action or proceeding (whether criminal, civil, administrative or investigative) by reason of the fact that such person is or was a director, officer or employee of Sientra or any predecessor of ours, or serves or served at any other enterprise as a director, officer or employee at our request or the request of any predecessor of ours, against expenses (including attorneys' fees), judgments, fines, settlements and other amounts actually and reasonably incurred in connection with any proceeding, arising by reason of the fact that such person is or was an agent of ours. Our bylaws also provide that we may, to the fullest extent provided by law, indemnify any person against expenses (including attorneys' fees), judgments, fines, settlements and other amounts actually and reasonably incurred in connection with any proceeding, arising by reason of the fact that such person is or was an agent of ours. We are required to advance expenses incurred by our directors, officers, employees and agents in defending any action or proceeding for which indemnification is required or permitted, subject to certain limited exceptions. The indemnification rights conferred by our certificate of incorporation and bylaws are not exclusive.

In addition, we have entered into indemnification agreements with each of our executive officers and directors. We also maintain an officers and directors liability insurance policy.

The foregoing may reduce the likelihood of derivative litigation against our directors and executive officers and may discourage or deter stockholders or management from suing directors or executive officers for breaches of their duty of care, even though such actions, if successful, might otherwise benefit the company and our stockholders.

The underwriting agreement that we may enter into will provide for indemnification by any underwriters of the company, our directors, our officers who sign the registration statement and our controlling persons, if any, for some liabilities, including liabilities arising under the Securities Act.

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Exhibits

Exhibit Number	Description
1.1*	Form of Underwriting Agreement.
4.1	Certificate of Incorporation (incorporated by reference to our Registration Statement on Form S-1 filed with the Commission on October 20, 2014).
4.2	Amended and Restated Bylaws (incorporated by reference to our Registration Statement on Form S-1 filed with the Commission on October 20, 2014).
4.3	Form of Convertible Note (incorporated by reference to our Periodic Report on Form 8-K filed with the Commission on March 12, 2020).
5.1	Opinion of DLA Piper LLP (US).
10.1	Facility Agreement, dated as of March 11, 2020, by and among Sientra, Inc., certain of Sientra, Inc.'s subsidiaries party thereto as guarantors and Deerfield Partners, L.P. (incorporated by reference to our Annual Report on Form 10-K filed with the Commission on March 16, 2020).
10.2	Guaranty, dated as of March 11, 2020, by and among MiraDry Holdings, Inc., MiraDry, Inc. and MiraDry International, Inc. (incorporated by reference to our Periodic Report on Form 8-K filed with the Commission on March 12, 2020).
10.3	Registration Rights Agreement, dated as of March 11, 2020, by and between Sientra, Inc. and Deerfield Partners, L.P. (incorporated by reference to our Periodic Report on Form 8-K filed with the Commission on March 12, 2020).
23.1	Consent of KPMG LLP, Independent Registered Public Accounting Firm.
23.2	Consent of DLA Piper LLP (US) (included in Exhibit 5.1).
24.1	Power of Attorney (included immediately following the signature page to the registration statement).

* If applicable, to be filed by amendment or by a report filed under the Exchange Act and incorporated herein by reference.

Undertakings

The undersigned registrant hereby undertakes:

1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement: (i) to include any prospectus required by Section 10(a)(3) of the Securities Act; (ii) to reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Securities and Exchange Commission (the "Commission"), pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than 20 percent change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement; and (iii) to include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement;

Provided, however, that paragraphs (a)(1)(i), (a)(1)(ii) and (a)(1)(iii) do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to

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the Commission by the registrant pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934 (the “Exchange Act”), that are incorporated by reference in the registration statement, or is contained in a form of prospectus filed pursuant to Rule 424(b) that is part of the registration statement.

2) That, for the purpose of determining any liability under the Securities Act, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.

3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

4) That, for the purpose of determining liability under the Securities Act to any purchaser:

- i. Each prospectus filed by the registrant pursuant to Rule 424(b)(3) shall be deemed to be part of the registration statement as of the date the filed prospectus was deemed part of and included in the registration statement; and
- ii. Each prospectus required to be filed pursuant to Rule 424(b)(2), (b)(5) or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii) or (x) for the purpose of providing the information required by Section 10(a) of the Securities Act shall be deemed to be part of and included in the registration statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person that is at that date an underwriter, such date shall be deemed to be a new effective date of the registration statement relating to the securities in the registration statement to which that prospectus relates, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof. *Provided, however*, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such effective date, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such effective date.

5) That, for the purpose of determining liability of the registrant under the Securities Act to any purchaser in the initial distribution of the securities, in a primary offering of securities of the undersigned registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

- i. Any preliminary prospectus or prospectus of the undersigned registrant relating to the offering required to be filed pursuant to Rule 424;
- ii. Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned registrant or used or referred to by the undersigned registrant;
- iii. The portion of any other free writing prospectus relating to the offering containing material information about the undersigned registrant or its securities provided by or on behalf of an undersigned registrant; and
- iv. Any other communication that is an offer in the offering made by the undersigned registrant to the purchaser.

6) That, for purposes of determining any liability under the Securities Act, each filing of the registrant’s annual report pursuant to Section 13(a) or Section 15(d) of the Exchange Act (and, where applicable, each filing of an employee benefit plan’s annual report pursuant to Section 15(d) of the Exchange Act) that is incorporated by

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reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

7) To file an application for the purpose of determining the eligibility of the trustee to act under subsection (a) of Section 310 of the Trust Indenture Act in accordance with the rules and regulations prescribed by the Commission under Section 305(b)(2) of the Trust Indenture Act.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Act and will be governed by the final adjudication of such issue.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, 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 registration statement to be signed on its behalf by the undersigned thereunto duly authorized in the City of Santa Barbara, State of California, on April 10, 2020.

SIENTRA, INC.

By: /s/ Jeffrey Nugent

Jeffrey Nugent
Chairman and Chief Executive Officer

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose individual signature appears below hereby authorizes and appoints Jeffrey Nugent, Paul Little and Oliver Bennett, and each of them, with full power of substitution and resubstitution and full power to act without the other, as his true and lawful attorney-in-fact and agent to act in his name, place and stead and to execute in the name and on behalf of each person, individually and in each capacity stated below, and to file any and all amendments (including post-effective amendments) to this Registration Statement, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing, ratifying and confirming all that said attorneys-in-fact and agents or any of them or their or his substitute or substitutes may lawfully do or cause to be done by virtue thereof.

Pursuant to the requirements of the Securities Act of 1933, as amended, this Registration Statement has been signed by the following persons in the capacities and on the dates indicated.

<u>Name</u>	<u>Title</u>	<u>Date</u>
<u>/s/ Jeffrey Nugent</u> Jeffrey Nugent	Chairman and Chief Executive Officer (Principal Executive Officer)	April 10, 2020
<u>/s/ Paul Little</u> Paul Little	Chief Financial Officer and Treasurer (Principal Financial and Accounting Officer)	April 10, 2020
<u>/s/ Nicholas Simon</u> Nicholas Simon	Lead Independent Director	April 10, 2020
<u>/s/ Mary M. Fisher</u> Mary M. Fisher	Director	April 10, 2020
<u>/s/ Kevin O'Boyle</u> Kevin O'Boyle	Director	April 10, 2020
<u>/s/ Philippe A. Schaison</u> Philippe A. Schaison	Director	April 10, 2020
<u>/s/ Keith Sullivan</u> Keith Sullivan	Director	April 10, 2020
<u>/s/ Caroline Van Hove</u> Caroline Van Hove	Director	April 10, 2020

DLA Piper LLP (US)
4365 Executive Drive, Suite 1100
San Diego, California 92121-2133
www.dlapiper.com

T 858.677.1400
F 858.677.1401

April 10, 2020

Sientra, Inc.
420 South Fairview Avenue, Suite 200
Santa Barbara, California 93117

Ladies and Gentlemen:

We have acted as counsel to Sientra, Inc., a Delaware corporation (the “*Company*”), in connection with its filing on the date hereof with the Securities and Exchange Commission (the “*Commission*”) of a registration statement on Form S-3 (as amended, the “*Registration Statement*”), including a base prospectus (the “*Base Prospectus*”), which may be supplemented by one or more prospectus supplements (each such prospectus supplement, together with the Base Prospectus, a “*Prospectus*”), under the Securities Act of 1933, as amended (the “*Act*”), relating to the registration of 14,634,147 shares of the Company’s common stock, \$0.01 par value per share (“*Common Stock*”), to be sold from time to time by the selling stockholder named therein (the “*Shares*”).

This opinion is being furnished in connection with the requirements of Item 601(b)(5) of Regulation S-K under the Act, and no opinion is expressed herein as to any matter pertaining to the contents of the Registration Statement or related applicable Prospectus, other than as expressly stated herein with respect to the issue of the Shares.

As such counsel, we have examined such matters of fact and questions of law as we have considered appropriate for purposes of this letter. With your consent, we have relied upon certificates and other assurances of officers of the Company and others as to factual matters without having independently verified such factual matters. We are opining herein as to the General Corporation Law of the State of Delaware, and we express no opinion with respect to the applicability thereto, or the effect thereon, of the laws of any other jurisdiction or, in the case of Delaware, any other laws, or as to any matters of municipal law or the laws of any local agencies within any state.

Subject to the foregoing and the other matters set forth herein, it is our opinion that, as of the date hereof, the Shares have been duly authorized and are validly issued, fully paid and nonassessable.

This opinion is for your benefit in connection with the Registration Statement and may be relied upon by you and by persons entitled to rely upon it pursuant to the applicable provisions of the Act. We consent to your filing this opinion as an exhibit to the Registration Statement and to the reference to our firm contained in the Prospectus under the heading “Legal Matters.” In giving such consent, we do not thereby admit that we are in the category of persons whose consent is required under Section 7 of the Act or the rules and regulations of the Commission thereunder

Very truly yours,

/s/ DLA Piper LLP (US)

DLA Piper LLP (US)

Consent of Independent Registered Public Accounting Firm

The Board of Directors
Sientra, Inc:

We consent to the use of our reports dated March 16, 2020, with respect to the consolidated balance sheets of Sientra, Inc. as of December 31, 2019 and 2018, the related consolidated statements of operations, stockholders' equity, and cash flows for each of the years in the three-year period ended December 31, 2019, and the related notes and financial statement schedule II (collectively, the consolidated financial statements), and the effectiveness of internal control over financial reporting as of December 31, 2019, incorporated herein by reference and to the reference to our firm under the heading "Experts" in the prospectus.

Our report dated March 16, 2020 refers to a change in method of accounting for leases effective January 1, 2019 due to the adoption of the Accounting Standards Update, Leases (Topic 842).

Our report dated March 16, 2020, on the effectiveness of internal control over financial reporting as of December 31, 2019, contains an explanatory paragraph that states the Company acquired certain assets from Vesta Intermediate Funding, Inc. (Vesta) during 2019 and management excluded from its assessment of the effectiveness of the Company's internal control over financial reporting as of December 31, 2019, Vesta's internal control over financial reporting associated with total assets of \$21.3 million included in the consolidated financial statements of the Company as of and for the year ended December 31, 2019. Our audit of internal control over financial reporting of the Company also excluded an evaluation of the internal control over financial reporting of Vesta.

Additionally, our report on the effectiveness of internal control over financial reporting as of December 31, 2019, expresses our opinion that Sientra, Inc. and subsidiaries did not maintain effective internal control over financial reporting as of December 31, 2019 because of the effect of material weaknesses on the achievement of the objectives of the control criteria and contains an explanatory paragraph that states the following material weakness has been identified:

- The control environment was ineffective in holding individuals accountable for the operation of their internal control responsibilities. This control failure prevented the effective operation of controls over goodwill and intangible asset impairment, including the underlying financial data, calculations and assumptions supporting the forecasted financial information utilized to measure the fair value of the reporting unit, intangible assets, and the associated impairment charges.

/s/ KPMG LLP

Los Angeles, California
April 10, 2020