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

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**FORM S-8  
REGISTRATION STATEMENT  
UNDER  
THE SECURITIES ACT OF 1933**

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**AXOGEN, INC.**

(Exact Name of Registrant as Specified in its Charter)

**Minnesota**

(State or Other Jurisdiction of Incorporation or Organization)

**41-1301878**

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

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**13631 Progress Boulevard, Suite 400,  
Alachua, Florida 32615  
(386) 462-6800**

(Address and Zip Code of Principal Executive Offices)

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**AXOGEN, INC. 2010 STOCK INCENTIVE PLAN**  
(Full Title of the Plan)

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**Karen Zaderej  
Chief Executive Officer  
AxoGen, Inc.**

**13859 Progress Boulevard, Suite 100,  
Alachua, Florida 32615  
(386) 462-6800**

(Name, Address, Zip Code and Telephone Number of Agent for Service)

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**Copies to:**

**Fahd M.T. Riaz**

**Emilo Ragosa**

Morgan, Lewis & Bockius LLP  
1701 Market Street  
Philadelphia, PA 19103-2921  
(215) 963-5000

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. (Check one):

Large accelerated filer

Non-accelerated filer

(Do not check if a smaller reporting company)

Accelerated filer

Smaller reporting company

**CALCULATION OF REGISTRATION FEE**

| Title of Securities to be Registered (1) | 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, \$0.01 par value           | 750,000                     | \$ 3.12                                       | \$ 2,340,000                                  | \$ 271.91                      |

(1) Pursuant to Rule 416(a) under the Securities Act of 1933, as amended (the "Securities Act"), this Registration Statement shall also cover any additional shares of the registrant's common stock, \$0.01 par value per share, that become issuable under the AxoGen, Inc. 2010 Stock Incentive Plan by reason of any stock dividend, stock split, recapitalization or other similar transaction effected without receipt of consideration that increases the number of outstanding shares of the registrant's common stock.

(2) Estimated solely for the purpose of calculating the registration fee, pursuant to Rule 457(c) under the Securities Act, and based on the average of the high and low sale prices of the registrant's common Stock, as reported on the NASDAQ Capital Market on December 16, 2014.

## PART I INFORMATION REQUIRED IN THE SECTION 10(a) PROSPECTUS

### Item 1. Plan Information.

The documents containing the information specified in this Part I of Form S-8 will be sent or given to employees as specified by Rule 428(b)(1) of the Securities Act. Such documents need not be filed with the Commission either as part of this Registration Statement or as prospectuses or prospectus supplements pursuant to Rule 424. These documents and the documents incorporated by reference in this Registration Statement pursuant to Item 3 of Part II of this Form S-8, taken together, constitute a prospectus that meets the requirements of Section 10(a) of the Securities Act.

### Item 2. Registrant Information and Employee Plan Annual Information.

The Company will furnish, without charge, to each person to whom the prospectus is delivered, upon the written or oral request of such person, a copy of any and all of the documents incorporated by reference in Item 3 of Part II of this Registration Statement. The Company will also furnish without charge to each person to whom the prospectus is delivered, upon the written or oral request of such person, a copy of other documents required to be delivered to employees of the Company under Rule 428(b). Requests should be directed to: AxoGen, Inc., 13631 Progress Boulevard, Suite 400, Alachua, Florida 32615; Attention: Gregory G. Freitag, General Counsel, telephone number (386) 462-6800.

## PART II INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

### Item 3. Incorporation of Documents by Reference.

The following documents of the Company, filed with the Commission are incorporated by reference into this Registration Statement:

- (a) The Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2013, filed with the Commission on March 6, 2014;
- (c) The Company's Quarterly Reports on Form 10-Q for the fiscal quarters ended March 31, 2014, June 30, 2014 and September 30, 2014, filed with the Commission on April 30, 2014, August 4, 2014 and November 13, respectively;
- (d) The Company's Current Reports on Form 8-K filed with the Commission on January 8, 2014, May 12, 2014, May 19, 2014, August 25, 2014 and November 13, 2014 (provided that any portions of such reports that are deemed furnished and not filed pursuant to instructions to Form 8-K shall not be incorporated by reference into this Registration Statement); and
- (e) The description of Common Stock set forth in the Company's Registration Statement on Form 8—A filed with the Commission on August 8, 2013 pursuant to Section 12(b) of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), including any amendment or report filed for the purpose of updating such description.

All reports and other documents subsequently filed by the Company pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Exchange Act prior to the filing of a post-effective amendment that indicates that all securities offered have been sold or that deregisters all securities then remaining unsold, shall be deemed to be incorporated by reference in this Registration Statement and to be a part hereof from the

date of the filing of such reports and documents. Unless expressly incorporated into this Registration Statement, a report furnished but not filed on Form 8-K shall not be incorporated by reference into this Registration Statement.

Any statement contained herein or in a document all or a portion of which is incorporated or deemed to be incorporated by reference herein shall be deemed to be modified or superseded for purposes of this Registration Statement to the extent that a statement contained

herein or in any other subsequently filed document that also is or is deemed to be incorporated by reference herein modifies or supersedes such statement. Any such statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this Registration Statement.

**Item 4. Description of Securities.**

Not applicable.

**Item 5. Interests of Named Experts and Counsel.**

Not applicable.

**Item 6. Indemnification of Directors and Officers.**

Minnesota Statutes, Section 302A.521, subd. 2, requires the Company to indemnify a person made or threatened to be made a party to a proceeding by reason of the former or present official capacity of the person with respect to the Company, against judgments, penalties, fines, settlements, and reasonable expenses, including attorneys' fees and disbursements, incurred by the person in connection with the proceeding if certain statutory standards are met, unless the Company amends its Amended and Restated Articles of Incorporation (the "Articles of Incorporation") or its Amended and Restated Bylaws (the "Bylaws") to prohibit or condition such indemnification rights. In addition, Minnesota Statutes, Section 302A.521, subd. 3 requires payment by the Company, upon written request, of reasonable expenses in advance of final disposition of the proceeding in certain circumstances unless the Company amends the Articles of Incorporation or the Bylaws to prohibit or condition such expense advancement rights. Under Section 302A.521, subd. 4, the Company may amend the Articles of Incorporation or the Bylaws to prohibit or condition such indemnification or expense advancement rights. A decision as to required indemnification is made (i) by a disinterested majority of the Company's Board of Directors present at a meeting at which a disinterested quorum is present, (ii) by a designated committee of the Board of Directors consisting of two or more disinterested directors, (iii) by special legal counsel selected by the board or a committee by vote pursuant to clause (i) or (ii) above, (iv) by an affirmative vote of the shareholders, in which the shares held by parties to the proceeding is not counted in determining the presence of a quorum and are not considered to be present and entitled to vote, or (v) by a court in Minnesota. For purposes of clauses (i) and (ii) above, a director is disinterested if he or she is not a party to the proceeding for which indemnification or expense advancement is at issue. Section 302A.521 contains detailed terms regarding such right of indemnification and reference is made thereto for a complete statement of such indemnification rights.

Article 7 of the Articles of Incorporation provides that, to the fullest extent permitted by the Minnesota Business Corporation Act as the same exists or may hereafter be amended, a director of the Company shall not be personally liable to the Company or its shareholders for monetary damages for breach of fiduciary duty as a director; provided, however, that Article 7 shall not eliminate or limit the liability of a director to the extent provided by applicable law (i) for any breach of the director's duty of loyalty to the corporation or its shareholders, (ii) for acts or omissions not in good faith or that involve intentional misconduct or a knowing violation of law, (iii) under section 302A.559 or 80A.76 of the Minnesota Statutes, (iv) for any transaction from which the director derived an improper personal benefit,

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or (v) for any act or omission occurring prior to the effective date of Article 7 or any predecessor of this provision. Neither the amendment, modification or repeal of Article 7 nor the adoption of any provision in these articles of incorporation inconsistent with Article 7 shall adversely affect any right or protection of a director or officer of the Company with respect to any act or omission that occurred prior to the time of such amendment, modification, repeal or adoption.

The Bylaws provide that the directors and officers of the Company shall have the right to indemnification provided by Minnesota Statutes, Section 302A.521, as now enacted or hereafter amended. Under Section 302A.521, subd. 2, indemnification will be available only where an officer, director or employee can establish that he or she: (i) has not been indemnified by another organization with respect to the same acts or omissions; (ii) acted in good faith; (iii) received no improper personal benefits; (iv) in the case of a criminal proceeding, had no reasonable cause to believe the conduct was unlawful; and (v) reasonably believed the conduct was in the best interests of the Company or, in certain circumstances, reasonably believed that the conduct was not opposed to the best interests of the Company.

The Company maintains, on behalf of its directors and officers, insurance protection against certain liabilities arising out of the discharge of their duties, as well as insurance covering the Company for indemnification payments made to its directors and officers for certain liabilities. The premiums for such insurance are paid by the Company.

With respect to possible indemnification of directors, officers and controlling persons of the Company for liabilities arising under the Securities Act pursuant to such provisions, the Company is aware that the Commission has publicly taken the position that such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable.

**Item 7. Exemption From Registration Claimed.**

Not applicable.

**Item 8. Exhibits.**

| <u>Exhibit No.</u> | <u>Description</u>  |
|--------------------|---|
| 4.1                | AxoGen, Inc. 2010 Stock Incentive Plan, amended and restated as of May 13, 2014 (incorporated by reference to |

|      |  |
|------|--|
|      | Appendix A to AxoGen, Inc.'s Proxy Statement filed on March 31, 2014)  |
| 5.1  | Opinion of Kaplan, Strangis and Kaplan, P.A.                           |
| 23.1 | Consent of Kaplan, Strangis and Kaplan, P.A. (included in Exhibit 5.1) |
| 23.2 | Consent of Lurie Besikof Lapidus & Company, LLP                        |
| 24.1 | Power of Attorney (included on signature pages hereto)                 |

## Item 9. Undertakings

(a) 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 of 1933;
- (ii) To reflect in the prospectus any facts or events arising after the effective date of the

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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;

(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) and (a)(1)(ii) 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 the Commission by the registrant pursuant to section 13 or section 15(d) of the Securities Exchange Act of 1934 that are incorporated by reference in this Registration Statement.

(2) That, for the purpose of determining any liability under the Securities Act of 1933, 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.

(b) The undersigned registrant hereby undertakes that, for purposes of determining any liability under the Securities Act of 1933, each filing of the registrant's annual report pursuant to Section 13(a) or Section 15(d) of the Securities Exchange Act of 1934 (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Securities Exchange Act of 1934) that is incorporated by 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.

(c) Insofar as indemnification for liabilities arising under the Securities Act of 1933 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.

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## 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-8 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the city of Alachua, State of Florida, on this 23rd day of December 2014.

AXOGEN, INC.

/s/Karen Zaderej  
Karen Zaderej  
Chief Executive Officer

## POWER OF ATTORNEY

Each person in so signing also makes, constitutes and appoints Karen Zaderej, Chief Executive Officer, Lee Robert Johnston, Jr., Chief Financial Officer and Gregory G. Freitag, General Counsel, and each of them acting alone, his true and lawful attorney-in-fact, with full power of substitution, to execute and cause to be filed with the Securities and Exchange Commission pursuant to the requirements of the Securities Act of 1933, as amended, any and all amendments and post-effective amendments to this Registration Statement, with exhibits thereto and other documents in connection therewith, and hereby ratifies and confirms all that said attorney-in-fact or his substitute or substitutes may do or cause to be done by virtue hereof.

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

| <u>Signature</u>   | <u>Title</u>   | <u>Date</u>       |
|--|--|-------------------|
| <u>/s/Karen Zaderej</u><br>Karen Zaderej                       | Chief Executive Officer, Director<br>(principal executive officer)                           | December 23, 2014 |
| <u>/s/Lee Robert Johnston, Jr.</u><br>Lee Robert Johnston, Jr. | Chief Financial Officer<br>(principal financial officer and principal<br>accounting officer) | December 23, 2014 |
| <u>/s/Jamie M. Grooms</u><br>Jamie M. Grooms                   | Chairman of the Board of Directors   | December 23, 2014 |
| <u>/s/Mark Gold</u><br>Mark Gold                               | Director   | December 23, 2014 |

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| <u>Signature</u>                                   | <u>Title</u>              | <u>Date</u>       |
|--|---------------------------|-------------------|
| <u>/s/Gregory G. Freitag</u><br>Gregory G. Freitag | General Counsel, Director | December 23, 2014 |
| <u>/s/John Harper</u><br>John Harper               | Director                  | December 23, 2014 |
| <u>/s/Joe Mandato</u><br>Joe Mandato               | Director                  | December 23, 2014 |
| <u>/s/Robert J. Rudelius</u><br>Robert J. Rudelius | Director                  | December 23, 2014 |

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### Exhibit Index

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|--------------------|---|
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| 5.1                | Opinion of Kaplan, Strangis and Kaplan, P.A.  |
| 23.1               | Consent of Kaplan, Strangis and Kaplan, P.A. (included in Exhibit 5.1)  |
| 23.2               | Consent of Lurie Besikof Lapidus & Company, LLP   |
| 24.1               | Power of Attorney (included on signature pages hereto)  |

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[Letterhead of Kaplan, Strangis and Kaplan, P.A.]

December 23, 2014

Ladies and Gentlemen:

This opinion is furnished in connection with the Registration Statement on Form S-8 (the "Registration Statement") filed with the Securities and Exchange Commission on December 23, 2014 by AxoGen, Inc., a Minnesota corporation (the "Company"), to register an additional 750,000 shares of common stock, par value \$.01 per share, of the Company (the "Common Stock"), which are reserved for issuance under AxoGen, Inc. 2010 Stock Incentive Plan, as amended and restated (the "Plan").

We have acted as special counsel to the Company and, as such, have examined originals, or copies certified or otherwise identified to our satisfaction, of the Registration Statement and the exhibits thereto and such documents, corporate records and other instruments as we have deemed necessary or appropriate for the purpose of this opinion, including, without limitation (a) the Company's Amended and Restated Articles of Incorporation, (b) the Company's Amended and Restated Bylaws, (c) the Plan, and (d) certain resolutions adopted by the board of directors and shareholders of the Company with respect to the authorization and proposed issuance of shares of Common Stock pursuant to the Plan as contemplated by the Registration Statement.

As to questions of fact material to this opinion, we have relied on certificates or comparable documents of public officials and of officers of the Company. In rendering the opinion expressed below, we have assumed without verification the genuineness of all signatures, the legal capacity of natural persons, the authenticity of all documents submitted to us as originals, the conformity to the originals of all documents submitted to us as copies and the authenticity of the originals of such copies.

Based on the foregoing, and subject to the qualifications, assumptions and limitations stated herein, we are of the opinion that:

1. The Company has been duly incorporated and is validly existing and in good standing under the laws of the State of Minnesota.
2. The Company has the corporate authority to issue the shares of Common Stock covered by the Registration Statement.
3. The additional 750,000 shares of Common Stock proposed to be issued under the Plan as described in the Registration Statement have been duly authorized by the Company and will, when issued pursuant to the terms of the Plan, be duly and validly issued, fully paid and non-assessable.

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We are members of the bar in the State of Minnesota and the foregoing is limited to the laws of the state of Minnesota.

We hereby consent to the filing of this opinion as an Exhibit to the Registration Statement and to the reference to our firm in the Registration Statement. In giving such consent, we do not thereby admit that we come within the category of persons whose consent is required under Section 7 of the Securities Act of 1933, as amended, or the rules and regulations of the Commission promulgated thereunder.

Sincerely,

KAPLAN, STRANGIS AND KAPLAN, P.A.

By: /s/ Bruce J. Parker  
Bruce J. Parker



**Consent of Independent Registered Public Accounting Firm**

We consent to the incorporation by reference in the Registration Statement on Form S-8 of AxoGen, Inc. pertaining to the AxoGen, Inc 2010 Stock Incentive Plan of our report dated March 6, 2014 relating to the consolidated financial statements of AxoGen, Inc. and its subsidiary as of and for the years ended December 31, 2013 and 2012, which report appears in AxoGen, Inc.'s Annual Report on Form 10-K for the year ended December 31, 2013.

/s/ Lurie Besikof Lapidus & Company, LLP

Minneapolis, MN

December 23, 2014

|         |   |
|---------|---|
| phone   | 612.377.4404                                    |
| fax     | 612.377.1325                                    |
| address | 2501 Wayzata Boulevard<br>Minneapolis, MN 55405 |
| website | www.lblco.com                                   |

