

SECOND AMENDED AND RESTATED

BYLAWS OF

HUMANIGEN, INC.

A DELAWARE CORPORATION

EFFECTIVE AS OF AUGUST 7, 2017

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ARTICLE I

OFFICES AND RECORDS

Section 1.1 Delaware Office. The registered office of the Corporation in the State of Delaware shall be located in the City of Dover, County of Kent.

Section 1.2 Other Offices. The Corporation may have such other offices, either within or without the State of Delaware, as the Board of Directors may designate or as the business of the Corporation may from time to time require.

Section 1.3 Books and Records. The books and records of the Corporation may be kept at the Corporation's headquarters in Brisbane, California or at such other locations outside the State of Delaware as may from time to time be designated by the Board of Directors.

ARTICLE II

STOCKHOLDERS

Section 2.1 Annual Meeting. The annual meeting of the stockholders of the Corporation shall be held at such date, place and/or time as may be fixed by resolution of the Board of Directors.

Section 2.2 Special Meeting. Special meetings of stockholders of the Corporation may be called by the Chairman of the Board, the Chief Executive Officer, by the Board of Directors acting pursuant to a resolution adopted by a majority of the Whole Board or by the Chairman of the Board or the Chief Executive Officer at the request in writing of stockholders owning at least fifty percent (50%) in amount of the entire capital stock of the Corporation issued and outstanding and entitled to vote. For purposes of these Second Amended and Restated Bylaws ("Bylaws"), the term "Whole Board" shall mean the total number of authorized directors whether or not there exist any vacancies in previously authorized directorships.

Section 2.3 Place of Meeting. The Board of Directors may designate the place of meeting for any meeting of the stockholders. If no designation is made by the Board of Directors, the place of meeting shall be the principal office of the Corporation.

Section 2.4 Notice of Meeting. Except as otherwise required by law, written, printed or electronic notice stating the place, day and hour of the meeting and, in the case of a special meeting only, the purposes for which the meeting is called, shall be prepared and delivered by the Corporation not less than ten (10) days nor more than sixty (60) days before the date of the meeting, either personally, by mail, or in the case of stockholders who have consented to such delivery, by electronic transmission (as such term is defined in the Delaware General Corporation Law), to each stockholder of record entitled to vote at such meeting. If mailed, such notice shall be deemed to be delivered when deposited in the U.S. mail with postage thereon prepaid, addressed to the stockholder at his address as it appears on the stock transfer books of the Corporation. Notice given by electronic transmission shall be effective (A) if by facsimile, when faxed to a number where the stockholder has consented to receive notice; (B) if by

electronic mail, when mailed electronically to an electronic mail address at which the stockholder has consented to receive such notice; (C) if by posting on an electronic network together with a separate notice of such posting, upon the later to occur of (i) the posting or (ii) the giving of separate notice of the posting; or (D) if by other form of electronic communication, when directed to the stockholder in the manner consented to by the stockholder. Any previously scheduled meeting of the stockholders may be cancelled, adjourned or postponed and by resolution of the Board of Directors upon public notice given prior to the time previously scheduled for such meeting of stockholders.

Section 2.5 Quorum and Adjournment. Except as otherwise provided by law or by the Certificate of Incorporation, the holders of a majority of the voting power of the outstanding shares of the Corporation entitled to vote generally in the election of directors, represented in person or by proxy, shall constitute a quorum at a meeting of stockholders, except that when specified business is to be voted on by a class or series voting separately as a class or series, the holders of a majority of the voting power of the shares of such class or series shall constitute a quorum for the transaction of such business for the purposes of taking action on such business. In the absence of a quorum, such meeting may be adjourned by the chairman of the meeting or upon the approval of a majority of the voting power present, even if less than a quorum. No notice of the time and place of adjourned meetings need be given provided such adjournment is for less than thirty (30) days and further provided that no new record date is fixed for the adjourned meeting and provided further that the time or place of the adjourned meeting is announced at the meeting at which the adjournment is taken.

Section 2.6 Proxies. At all meetings of stockholders, a stockholder may vote by proxy executed in writing by the stockholder or as may be permitted by law, or by his duly authorized attorney-in-fact. Such proxy must be filed with the Secretary of the Corporation or his representative, or otherwise delivered telephonically or electronically as set forth in the applicable proxy statement, at or before the time of the meeting.

Section 2.7 Notice of Stockholder Business and Nominations.

A. Annual Meetings of Stockholders. (1) Nominations of persons for election to the Board of Directors of the Corporation and the proposal of other business to be considered by the stockholders may be made at an annual meeting of stockholders only (a) by or at the direction of the Board of Directors or any committee thereof or (b) by any stockholder of the Corporation who was a stockholder of record of the Corporation at the time the notice provided for in this Section 2.7 is delivered to the Secretary of the Corporation, who is entitled to vote at the meeting and who complies with the notice procedures set forth in this Section 2.7.

(2) For any nominations or other business to be properly brought before an annual meeting by a stockholder pursuant to clause (b) of paragraph (A)(1) of this Section 2.7, the stockholder must have given timely notice thereof in writing to the Secretary of the Corporation and any such proposed business (other than the nominations of persons for election to the Board of Directors) must constitute a proper matter for stockholder action. To be timely, a stockholder's notice shall be delivered to the Secretary at the principal executive offices of the Corporation not later than the close of business on the ninetieth (90th) day, nor earlier than the close of business on the one hundred twentieth (120th) day, prior to the first anniversary of

the preceding year's annual meeting (provided, however, that if no proxy materials were mailed by the Corporation in connection with the preceding year's annual meeting, or if the date of the annual meeting is more than thirty (30) days before or more than seventy (70) days after such anniversary date, notice by the stockholder must be so delivered not earlier than the close of business on the one hundred twentieth (120th) day prior to such annual meeting and not later than the close of business on the later of the ninetieth (90th) day prior to such annual meeting or the tenth (10th) day following the day on which public announcement of the date of such meeting is first made by the Corporation). In no event shall the public announcement of an adjournment or postponement of an annual meeting commence a new time period (or extend any time period) for the giving of a stockholder's notice as described above. Such stockholder's notice shall set forth: (a) as to each person whom the stockholder proposes to nominate for election as a director (i) all information relating to such person that is required to be disclosed in solicitations of proxies for election of directors in an election contest, or is otherwise required, in each case pursuant to and in accordance with Section 14(a) of the Securities Exchange Act of 1934, as amended (the "Exchange Act") and the rules and regulations promulgated thereunder, and (ii) such person's written consent to being named in the proxy statement as a nominee and to serving as a director if elected; (b) as to any other business that the stockholder proposes to bring before the meeting, the text of the proposal or business (including the text of any resolutions proposed for consideration and in the event that such business includes a proposal to amend the bylaws of the Corporation, the language of the proposed amendment), the reasons for conducting such business at the meeting and any material interest in such business of such stockholder and the beneficial owner, if any, on whose behalf the proposal is made; and (c) as to the stockholder giving the notice and the beneficial owner, if any, on whose behalf the nomination or proposal is made (i) the name and address of such stockholder, as they appear on the Corporation's books, and of such beneficial owner, (ii) the class or series and number of shares of capital stock of the Corporation which are owned beneficially and of record by such stockholder and such beneficial owner, (iii) a description of any agreement, arrangement or understanding with respect to the nomination or proposal between or among such stockholder and/or such beneficial owner, any of their respective affiliates or associates, and any others acting in concert with any of the foregoing, including, in the case of a nomination, the nominee, (iv) a description of any agreement, arrangement or understanding (including any derivative or short positions, profit interests, options, warrants, convertible securities, stock appreciation or similar rights, hedging transactions, and borrowed or loaned shares) that has been entered into as of the date of the stockholder's notice by, or on behalf of, such stockholder and such beneficial owners, whether or not such instrument or right shall be subject to settlement in underlying shares of capital stock of the Corporation, the effect or intent of which is to mitigate loss to, manage risk or benefit of share price changes for, or increase or decrease the voting power of, such stockholder or such beneficial owner, with respect to securities of the Corporation, (v) a representation that the stockholder is a holder of record of stock of the Corporation entitled to vote at such meeting and intends to appear in person or by proxy at the meeting to propose such business or nomination, (vi) a representation whether the stockholder or the beneficial owner, if any, intends or is part of a group which intends (a) to deliver a proxy statement and/or form of proxy to holders of at least the percentage of the Corporation's outstanding capital stock required to approve or adopt the proposal or elect the nominee and/or (b) otherwise to solicit proxies or votes from stockholders in support of such proposal or nomination, and (vii) any other information relating to such stockholder and beneficial owner, if any, required to be disclosed in a proxy statement or other

filings required to be made in connection with solicitations of proxies for, as applicable, the proposal and/or for the election of directors in an election contest pursuant to and in accordance with Section 14(a) of the Exchange Act and the rules and regulations promulgated thereunder. The foregoing notice requirements of this Section 2.7 shall be deemed satisfied by a stockholder with respect to business other than a nomination if the stockholder has notified the Corporation of his, her or its intention to present a proposal at an annual meeting in compliance with applicable rules and regulations promulgated under the Exchange Act and such stockholder's proposal has been included in a proxy statement that has been prepared by the Corporation to solicit proxies for such annual meeting. The Corporation may require any proposed nominee to furnish such other information as the Corporation may reasonably require to determine the eligibility of such proposed nominee to serve as a director of the Corporation.

(3) Notwithstanding anything in the second sentence of paragraph (A)(2) of this Section 2.7 to the contrary, in the event that the number of directors to be elected to the Board of Directors of the Corporation at the annual meeting is increased effective after the time period for which nominations would otherwise be due under paragraph (A)(2) of this Section 2.7 and there is no public announcement by the Corporation naming the nominees for the additional directorships at least one hundred (100) days prior to the first anniversary of the preceding year's annual meeting, a stockholder's notice required by this Section 2.7 shall also be considered timely, but only with respect to nominees for the additional directorships, if it shall be delivered to the Secretary at the principal executive offices of the Corporation not later than the close of business on the tenth (10th) day following the day on which such public announcement is first made by the Corporation.

B. Special Meetings of Stockholders. Only such business shall be conducted at a special meeting of stockholders as shall have been brought before the meeting pursuant to the Corporation's notice of meeting. Nominations of persons for election to the Board of Directors may be made at a special meeting of stockholders at which directors are to be elected pursuant to the Corporation's notice of meeting (1) by or at the direction of the Board of Directors or any committee thereof or (2) provided that the Board of Directors has determined that directors shall be elected at such meeting, by any stockholder of the Corporation who is a stockholder of record at the time the notice provided for in this Section 2.7 is delivered to the Secretary of the Corporation, who is entitled to vote at the meeting and upon such election and who complies with the notice procedures set forth in this Section 2.7. In the event the Corporation calls a special meeting of stockholders for the purpose of electing one or more directors to the Board of Directors, any such stockholder entitled to vote in such election of directors may nominate a person or persons (as the case may be) for election to such position(s) as specified in the Corporation's notice of meeting, if the stockholder's notice required by paragraph (A)(2) of this Section 2.7 shall be delivered to the Secretary at the principal executive offices of the Corporation not earlier than the close of business on the one hundred twentieth (120th) day prior to such special meeting and not later than the close of business on the later of the ninetieth (90th) day prior to such special meeting or the tenth (10th) day following the day on which public announcement is first made of the date of the special meeting and of the nominees proposed by the Board of Directors to be elected at such meeting. In no event shall the public announcement of an adjournment or postponement of a special meeting commence a new time period (or extend any time period) for the giving of a stockholder's notice as described above.

C. General. (1) Except as otherwise expressly provided in any applicable rule or regulation promulgated under the Exchange Act, only such persons who are nominated in accordance with the procedures set forth in this Section 2.7 shall be eligible to be elected at an annual or special meeting of stockholders of the Corporation to serve as directors and only such business shall be conducted at a meeting of stockholders as shall have been brought before the meeting in accordance with the procedures set forth in this Section 2.7. Except as otherwise provided by law, the chairman of the meeting shall have the power and duty (a) to determine whether a nomination or any business proposed to be brought before the meeting was made or proposed, as the case may be, in accordance with the procedures set forth in this Section 2.7 (including whether the stockholder or beneficial owner, if any, on whose behalf the nomination or proposal is made solicited (or is part of a group which solicited) or did not so solicit, as the case may be, proxies or votes in support of such stockholder's nominee or proposal in compliance with such stockholder's representation as required by clause (A)(2)(c)(vi) of this Section 2.7) and (b) if any proposed nomination or business was not made or proposed in compliance with this Section 2.7, to declare that such nomination shall be disregarded or that such proposed business shall not be transacted. Notwithstanding the foregoing provisions of this Section 2.7, unless otherwise required by law, if the stockholder (or a qualified representative of the stockholder) does not appear at the annual or special meeting of stockholders of the Corporation to present the nomination or proposed business, such nomination shall be disregarded and such proposed business shall not be transacted, notwithstanding that proxies in respect of such vote may have been received by the Corporation. For purposes of this Section 2.7, to be considered a qualified representative of the stockholder, a person must be a duly authorized officer, manager or partner of such stockholder or must be authorized by a writing executed by such stockholder or an electronic transmission delivered by such stockholder to act for such stockholder as proxy at the meeting of stockholders and such person must produce such writing or electronic transmission, or a reliable reproduction of the writing or electronic transmission, at the meeting of stockholders.

(2) For purposes of this Section 2.7, "public announcement" shall include disclosure in a press release reported by the Dow Jones News Service, Associated Press or other national news service or in a document publicly filed by the Corporation with the Securities and Exchange Commission pursuant to Section 13, 14 or 15(d) of the Exchange Act and the rules and regulations promulgated thereunder.

(3) Notwithstanding the foregoing provisions of this Section 2.7, a stockholder shall also comply with all applicable requirements of the Exchange Act and the rules and regulations promulgated thereunder with respect to the matters set forth in this Section 2.7; provided however, that any references in these bylaws to the Exchange Act or the rules and regulations promulgated thereunder are not intended to and shall not limit any requirements applicable to nominations or proposals as to any other business to be considered pursuant to this Section 2.7 (including paragraphs (A)(1)(b) and (B) hereof), and compliance with paragraphs (A)(1)(b) and (B) of this Section 2.7 shall be the exclusive means for a stockholder to make nominations or submit other business (other than, as provided in the penultimate sentence of (A)(2), nominations or other business brought properly under and in compliance with Rule 14a-8 of the Exchange Act, as may be amended from time to time). Nothing in this Section 2.7 shall be deemed to affect any rights of stockholders to request

inclusion of proposals or nominations in the Corporation's proxy statement pursuant to applicable rules and regulations promulgated under the Exchange Act.

Section 2.8 Procedure for Election of Directors. Election of directors at all meetings of the stockholders at which directors are to be elected shall be by written ballot, and a plurality of the votes cast thereat shall elect directors. Except as otherwise provided by law, the Certificate of Incorporation or these Bylaws, all matters other than the election of directors submitted to the stockholders at any meeting shall be decided by a majority of the votes cast affirmatively or negatively.

Section 2.9 Inspectors of Elections. The Board of Directors by resolution shall appoint one or more inspectors, which inspector or inspectors may include individuals who serve the Corporation in other capacities, including, without limitation, as officers, employees, agents or representatives of the Corporation, to act at the meeting and make a written report thereof. One or more persons may be designated as alternate inspectors to replace any inspector who fails to act. If no inspector or alternate has been appointed to act, or if all inspectors or alternates who have been appointed are unable to act, at a meeting of stockholders, the chairman of the meeting shall appoint one or more inspectors to act at the meeting. Each inspector, before discharging his or her duties, shall take and sign an oath faithfully to execute the duties of inspector with strict impartiality and according to the best of his or her ability. The inspectors shall have the duties prescribed by the Delaware General Corporation Law.

Section 2.10 Conduct of Meetings.

A. The Chief Executive Officer shall preside at all meetings of the stockholders. In the absence of the Chief Executive Officer, the Chairman of the Board shall preside at a meeting of the stockholders. In the absence of the Chief Executive Officer or the Chairman of the Board, the President shall preside at a meeting of the stockholders. In the absence of each of the Chief Executive Officer, the Chairman of the Board and the President, the Secretary shall preside at a meeting of the stockholders. In the anticipated absence of all officers designated to preside over the meetings of stockholders, the Board of Directors may designate an individual to preside over a meeting of the stockholders.

B. The chairman of the meeting shall fix and announce at the meeting the date and time of the opening and the closing of the polls for each matter upon which the stockholders will vote at a meeting.

C. The Board of Directors may, to the extent not prohibited by law, adopt by resolution such rules and regulations for the conduct of the meeting of stockholders as it shall deem appropriate. Except to the extent inconsistent with such rules and regulations as adopted by the Board of Directors, the chairman of any meeting of stockholders shall have the right and authority to prescribe such rules, regulations and procedures and to do all such acts as, in the judgment of such chairman, are appropriate for the proper conduct of the meeting. Such rules, regulations or procedures, whether adopted by the Board of Directors or prescribed by the chairman of the meeting, may to the extent not prohibited by law include, without limitation, the following: (i) the establishment of an agenda or order of business for the meeting; (ii) rules and procedures for maintaining order at the meeting and the safety of those present; (iii) limitations

on attendance at or participation in the meeting to stockholders of record of the Corporation, their duly authorized and constituted proxies or such other persons as the chairman of the meeting shall determine; (iv) restrictions on entry to the meeting after the time fixed for the commencement thereof and (v) limitations on the time allotted to questions or comments by participants. Unless, and to the extent, determined by the Board of Directors or the chairman of the meeting, meetings of stockholders shall not be required to be held in accordance with the rules of parliamentary procedure.

Section 2.11 Consent Procedure. In order that the Corporation may determine the stockholders entitled to consent to corporate action in writing without a meeting, the Board of Directors may fix a record date, which record date shall not precede the date upon which the resolution fixing the record date is adopted by the Board of Directors, and which record date shall not be more than 10 days after the date upon which the resolution fixing the record date is adopted by the Board of Directors. Any stockholder of record seeking to have the stockholders authorize or take corporate action by written consent shall, by written notice to the Secretary, request the Board of Directors to fix a record date. The Board of Directors shall promptly, but in all events within 10 days after the date on which such a request is received, adopt a resolution fixing the record date. If no record date has been fixed by the Board of Directors within 10 days after the date on which such a request is received, the record date for determining stockholders entitled to consent to corporate action in writing without a meeting, when no prior action by the Board of Directors is required by applicable law, shall be the first date on which a signed written consent setting forth the action taken or proposed to be taken is delivered to the Corporation by delivery to its registered office in Delaware, its principal place of business, or an officer or agent of the Corporation having custody of the book in which proceedings of meetings of stockholders are recorded. Delivery to the Corporation's registered office shall be by hand or by certified or registered mail, return receipt requested. If no record date has been fixed by the Board of Directors and prior action by the Board of Directors is required by applicable law, the record date for determining stockholders entitled to consent to corporate action in writing without a meeting shall be at the close of business on the date on which the Board of Directors adopts the resolution taking such prior action.

ARTICLE III BOARD OF DIRECTORS

Section 3.1 General Powers. The business and affairs of the Corporation shall be managed by or under the direction of the Board of Directors. In addition to the powers and authority expressly conferred upon them by statute or by the Certificate of Incorporation or by these Bylaws, the directors are hereby empowered to exercise all such powers and do all such acts and things as may be exercised or done by the Corporation.

Section 3.2 Number, Tenure and Qualifications. The number of directors shall be fixed from time to time by the Board of Directors pursuant to a resolution adopted by a majority of the Whole Board or by the stockholders at the annual meeting of the stockholders. Each director shall serve until such director's successor shall have been duly elected and qualified, or until such director's prior death, resignation, retirement, disqualification or other removal.

Section 3.3 Regular Meetings. The Board of Directors may, by resolution, provide the time and place for the holding of regular meetings of the Board of Directors.

Section 3.4 Special Meetings. Special meetings of the Board of Directors shall be called at the request of the Chairman of the Board, the Chief Executive Officer or a majority of the Board of Directors. The person or persons authorized to call special meetings of the Board of Directors may fix the place and time of the meetings.

Section 3.5 Action By Unanimous Consent of Directors. The Board of Directors may take action without the necessity of a meeting by unanimous consent of directors. Such consent may be in writing or given by electronic transmission, as such term is defined in the Delaware General Corporation Law.

Section 3.6 Notice. Notice of any meeting shall be given to each director at his business or residence in writing, or by facsimile transmission, telephone communication or electronic transmission (provided, with respect to electronic transmission, that the director has consented to receive the form of transmission at the address to which it is directed). If mailed, such notice shall be deemed adequately delivered when deposited in the United States mails so addressed, with postage thereon prepaid, at least five (5) days before such meeting. If by facsimile transmission or other electronic transmission, such notice shall be transmitted at least twenty-four (24) hours before such meeting. If by telephone, the notice shall be given at least twelve (12) hours prior to the time set for the meeting. Neither the business to be transacted at, nor the purpose of, any regular or special meeting of the Board of Directors need be specified in the notice of such meeting, except for amendments to these Bylaws as provided under Section 8.1 of Article VIII hereof. A meeting may be held at any time without notice if all the directors are present (except as otherwise provided by law) or if those not present waive notice of the meeting in writing or by electronic transmission, either before or after such meeting.

Section 3.7 Conference Telephone Meetings. Members of the Board of Directors, or any committee thereof, may participate in a meeting of the Board of Directors or such committee by means of conference telephone or similar communications equipment by means of which all persons participating in the meeting can hear each other, and such participation in a meeting shall constitute presence in person at such meeting.

Section 3.8 Quorum. A whole number of directors equal to at least a majority of the Whole Board shall constitute a quorum for the transaction of business, but if at any meeting of the Board of Directors there shall be less than a quorum present, a majority of the directors present may adjourn the meeting from time to time without further notice. The act of the majority of the directors present at a meeting at which a quorum is present shall be the act of the Board of Directors.

Section 3.9 Vacancies. Newly created directorships resulting from any increase in the authorized number of directors or any vacancies in the Board of Directors resulting from death, resignation, retirement, disqualification, removal from office or other cause shall, unless otherwise provided by law or by resolution of the Board of Directors, be filled only by a majority vote of the directors then in office, though less than a quorum (and not by stockholders), and directors so chosen shall hold office for a term expiring at the annual meeting

of stockholders at which the term of office to which they have been chosen or until such director's successor shall have been duly elected and qualified. No decrease in the authorized number of directors shall shorten the term of any incumbent director.

Section 3.10 Committees.

A. The Board of Directors may designate one or more committees, each committee to consist of one or more of the directors of the Corporation. The Board of Directors may designate one or more directors as alternate members of any committee, who may replace any absent or disqualified member at any meeting of the committee. In the absence or disqualification of a member of the committee, the member or members thereof present at any meeting and not disqualified from voting, whether or not he or they constitute a quorum, may unanimously appoint another member of the Board of Directors to act at the meeting in place of any such absent or disqualified member. Any such committee, to the extent permitted by law and to the extent provided in the resolution of the Board of Directors, shall have and may exercise all the powers and authority of the Board of Directors in the management of the business and affairs of the Corporation, and may authorize the seal of the Corporation to be affixed to all papers which may require it; provided, however, that no committee shall have power or authority in reference to the following matters: (i) approving, adopting or recommending to stockholders any action or matter required by law to be submitted to stockholders for approval or (ii) adopting, amending or repealing any bylaw.

B. Unless the Board of Directors otherwise provides, each committee designated by the Board of Directors may make, alter and repeal rules for the conduct of its business. In the absence of such rules each committee shall conduct its business in the same manner as the Board of Directors conducts its business pursuant to these Bylaws.

ARTICLE IV

OFFICERS

Section 4.1 Elected Officers. The elected officers of the Corporation shall be a Chief Executive Officer, a President, a Secretary, a Treasurer, and such other officers as the Board of Directors from time to time may deem proper. The Corporation may also have a Chairman of the Board who shall be chosen from the directors. All officers chosen by the Board of Directors shall each have such powers and duties as generally pertain to their respective offices, subject to the specific provisions of this Article IV. Such officers shall also have powers and duties as from time to time may be conferred by the Board of Directors or by any committee thereof.

Section 4.2 Election and Term of Office. The elected officers of the Corporation shall be elected annually by the Board of Directors at the regular meeting of the Board of Directors held after each annual meeting of the stockholders. If the election of officers shall not be held at such meeting, such election shall be held as soon thereafter as convenient. Subject to Section 4.7 of these Bylaws, each officer shall hold office until his successor shall have been duly elected and shall have qualified or until his death or until he or she shall resign.

Section 4.3 Chairman of the Board. The Chairman of the Board shall preside at all meetings of the Board. If the Company does not have a Chairman of the Board, the Lead Independent Director shall preside at all meetings of the Board. If the Company does not have a Lead Independent Director, the Chief Executive Officer shall preside at all meetings of the Board.

Section 4.4 Chief Executive Officer. The Chief Executive Officer shall be the general manager of the Corporation, subject to the control of the Board of Directors, and as such shall, subject to Section 2.10(A) hereof, preside at all meetings of stockholders, shall have general supervision of the affairs of the Corporation, shall sign or countersign or authorize another officer to sign all certificates, contracts, and other instruments of the Corporation as authorized by the Board of Directors, shall make reports to the Board of Directors and stockholders, and shall perform all such other duties as are incident to such office or are properly required by the Board of Directors.

Section 4.5 President. The President shall be the chief operating officer of the corporation and shall be subject to the general supervision, direction, and control of the Chief Executive Officer unless the Board of Directors provides otherwise.

Section 4.6 Secretary. The Secretary shall give, or cause to be given, notice of all meetings of stockholders and directors and all other notices required by law or by these Bylaws, and in case of his absence or refusal or neglect so to do, any such notice may be given by any person thereunto directed by the Chairman of the Board, the Chief Executive Officer, the President or by the Board of Directors, upon whose request the meeting is called as provided in these Bylaws. He or she shall record all the proceedings of the meetings of the Board of Directors, any committees thereof and the stockholders of the Corporation in a book to be kept for that purpose, and shall perform such other duties as may be assigned to him by the Board of Directors, the Chairman of the Board, the Chief Executive Officer or the President. He or she shall have custody of the seal of the Corporation and shall affix the same to all instruments requiring it, when authorized by the Board of Directors, the Chairman of the Board, the Chief Executive Officer or the President, and attest to the same.

Section 4.7 Treasurer. The Treasurer shall have the custody of the corporate funds and securities and shall keep full and accurate receipts and disbursements in books belonging to the Corporation. The Treasurer shall deposit all moneys and other valuables in the name and to the credit of the Corporation in such depositories as may be designated by the Board of Directors. The Treasurer shall disburse the funds of the Corporation as may be ordered by the Board of Directors the Chairman of the Board, the Chief Executive Officer or the President, taking proper vouchers for such disbursements. The Treasurer shall render to the Chairman of the Board, the Chief Executive Officer, the President and the Board of Directors, whenever requested, an account of all his transactions as Treasurer and of the financial condition of the Corporation. If required by the Board of Directors, the Treasurer shall give the Corporation a bond for the faithful discharge of his duties in such amount and with such surety as the Board of Directors shall prescribe.

Section 4.8 Removal. Any officer elected by the Board of Directors may be removed by the Board of Directors whenever, in their judgment, the best interests of the

Corporation would be served thereby. No elected officer shall have any contractual rights against the Corporation for compensation by virtue of such election beyond the date of the election of his successor, his death, his resignation or his removal, whichever event shall first occur, except as otherwise provided in an employment contract or an employee plan.

Section 4.9 Vacancies. A newly created office and a vacancy in any office because of death, resignation, or removal may be filled by the Board of Directors for the unexpired portion of the term at any meeting of the Board of Directors.

ARTICLE V

STOCK CERTIFICATES AND TRANSFERS

Section 5.1 Stock Certificates and Transfers.

A. Unless the Board of Directors has determined that some or all of any or all classes or series of stock shall be uncertificated shares, the interest of each stockholder of the Corporation shall be evidenced by certificates for shares of stock. The shares of the stock of the Corporation shall be transferred on the books of the Corporation, in the case of certificated shares, upon surrender for cancellation of certificates for the same number of shares, with an assignment and power of transfer endorsed thereon or attached thereto, duly executed, and with such proof of the authenticity of the signature as the Corporation or its agents may reasonably require.

B. Every holder of stock represented by certificates shall be entitled to have a certificate signed by, or in the name of the Corporation by the Chairman or Vice Chairman of the Board of Directors, the Chief Executive Officer or the President or a Vice President, and by the Treasurer or an Assistant Treasurer, or the Secretary or an Assistant Secretary of the Corporation representing the number of shares registered in certificate form. Any or all of the signatures on the certificate may be a facsimile. In case any officer, transfer agent or registrar who has signed or whose facsimile signature has been placed upon a certificate has ceased to be such officer, transfer agent or registrar before such certificate is issued, it may be issued by the Corporation with the same effect as if he or she were such officer, transfer agent or registrar at the date of issue.

ARTICLE VI

INDEMNIFICATION

Section 6.1 Right to Indemnification. Each person who was or is made a party or is threatened to be made a party to or is otherwise involved in any action, suit or proceeding, whether civil, criminal, administrative or investigative (hereinafter a "proceeding"), by reason of the fact that he or she is or was a director or officer of the Corporation or, while a director or officer of the Corporation, is or was serving at the request of the Corporation as a director, officer, employee or agent of another corporation or of a partnership, joint venture, trust or other enterprise, including service with respect to an employee benefit plan (hereinafter an "indemnitee"), where the basis of such proceeding is alleged action in an official capacity as a

director, officer, employee or agent, shall be indemnified and held harmless by the Corporation to the fullest extent authorized by the Delaware General Corporation Law, as the same exists or may hereafter be amended (but, in the case of any such amendment, only to the extent that such amendment permits the Corporation to provide broader indemnification rights than permitted prior thereto), against all expense, liability and loss (including attorneys' fees, judgments, fines, ERISA excise taxes or penalties and amounts paid in settlement) reasonably incurred or suffered by such indemnitee in connection therewith and such indemnification shall continue as to an indemnitee who has ceased to be a director, officer, employee or agent and shall inure to the benefit of the indemnitee's heirs, executors and administrators; provided, however, that, except as provided in Section 6.3 hereof with respect to proceedings to enforce rights to indemnification, the Corporation shall indemnify any such indemnitee in connection with a proceeding (or part thereof) initiated by such indemnitee only if such proceeding (or part thereof) was authorized by the Board of Directors of the Corporation. The Corporation is permitted to enter into indemnification agreements with its directors or officers.

Section 6.2 Right to Advancement of Expenses. The right to indemnification conferred in Section 6.1 shall include the right to be paid by the Corporation the expenses incurred in defending any proceeding for which such right to indemnification is applicable in advance of its final disposition (hereinafter an "advancement of expenses"); provided, however, that, if the Delaware General Corporation Law requires, an advancement of expenses incurred by an indemnitee in his or her capacity as a director or officer (and not in any other capacity in which service was or is rendered by such indemnitee, including, without limitation, service to an employee benefit plan) shall be made only upon delivery to the Corporation of an undertaking (hereinafter an "undertaking"), by or on behalf of such indemnitee, to repay all amounts so advanced if it shall ultimately be determined by final judicial decision from which there is no further right to appeal (hereinafter a "final adjudication") that such indemnitee is not entitled to be indemnified for such expenses under this Section or otherwise.

Section 6.3 Right of Indemnitee to Bring Suit. The rights to indemnification and to the advancement of expenses conferred in Section 6.1 and Section 6.2, respectively, shall be contract rights. If a claim under Section 6.1 or Section 6.2 is not paid in full by the Corporation within sixty days after a written claim has been received by the Corporation, except in the case of a claim for an advancement of expenses, in which case the applicable period shall be twenty days, the indemnitee may at any time thereafter bring suit against the Corporation to recover the unpaid amount of the claim. If successful in whole or in part in any such suit, or in a suit brought by the Corporation to recover an advancement of expenses pursuant to the terms of an undertaking, the indemnitee shall be entitled to be paid also the expense of prosecuting or defending such suit. In (A) any suit brought by the indemnitee to enforce a right to indemnification hereunder (but not in a suit brought by the indemnitee to enforce a right to an advancement of expenses) it shall be a defense that, and (B) in any suit by the Corporation to recover an advancement of expenses pursuant to the terms of an undertaking the Corporation shall be entitled to recover such expenses upon a final adjudication that, the indemnitee has not met any applicable standard for indemnification set forth in the Delaware General Corporation Law. Neither the failure of the Corporation (including its directors who are not parties to such action, a committee of such directors, independent legal counsel, or its stockholders) to have made a determination prior to the commencement of such suit that indemnification of the indemnitee is proper in the circumstances because the indemnitee has met the applicable

standard of conduct set forth in the Delaware General Corporation Law, nor an actual determination by the Corporation (including its directors who are not parties to such action, a committee of such directors, independent legal counsel, or its stockholders) that the indemnitee has not met such applicable standard of conduct, shall create a presumption that the indemnitee has not met the applicable standard of conduct or, in the case of such a suit brought by the indemnitee, be a defense to such suit. In any suit brought by the indemnitee to enforce a right to indemnification or to an advancement of expenses hereunder, or by the Corporation to recover an advancement of expenses pursuant to the terms of an undertaking, the burden of proving that the indemnitee is not entitled to be indemnified, or to such advancement of expenses, under this Section 6.3 or otherwise shall be on the Corporation.

Section 6.4 Non-Exclusivity of Rights. The rights to indemnification and to the advancement of expenses conferred in this Article VI shall not be exclusive of any other right which any person may have or hereafter acquire under the Certificate of Incorporation, these Bylaws, or any statute, agreement, vote of stockholders or disinterested directors or otherwise.

Section 6.5 Insurance. The Corporation may maintain insurance, at its expense, to protect itself and any director, officer, employee or agent of the Corporation or another corporation, partnership, joint venture, trust or other enterprise against any expense, liability or loss, whether or not the Corporation would have the power to indemnify such person against such expense, liability or loss under the Delaware General Corporation Law.

Section 6.6 Amendment of Rights. Any amendment, alteration or repeal of this Article VI that adversely affects any right of an indemnitee or its successors shall be prospective only and shall not limit or eliminate any such right with respect to any proceeding involving any occurrence or alleged occurrence of any action or omission to act that took place prior to such amendment or repeal.

Section 6.7 Indemnification of Employees and Agents of the Corporation. The Corporation may, to the extent authorized from time to time by the board of directors, grant rights to indemnification, and to the advancement of expenses, to any employee or agent of the Corporation to the fullest extent of the provisions of this Section with respect to the indemnification and advancement of expenses of directors and officers of the Corporation.

ARTICLE VII

MISCELLANEOUS PROVISIONS

Section 7.1 Fiscal Year. The fiscal year of the Corporation shall begin on the first day of January and end on the thirty-first (31st) day of December of each year.

Section 7.2 Dividends. The Board of Directors may from time to time declare, and the Corporation may pay, dividends on its outstanding shares, subject to any terms and conditions provided by law and its Certificate of Incorporation.

Section 7.3 Seal. The corporate seal shall have inscribed the name of the Corporation thereon and shall be in such form as may be approved from time to time by the Board of Directors.

Section 7.4 Waiver of Notice. Whenever any notice is required to be given to any stockholder or director of the Corporation under the provisions of the Delaware General Corporation Law, a waiver thereof in writing, signed by the person or persons entitled to such notice, or a waiver by electronic transmission, whether before or after the time stated therein, shall be deemed equivalent to the giving of such notice. Neither the business to be transacted at, nor the purpose of, any annual or special meeting of the stockholders of the Board of Directors need be specified in any waiver of notice of such meeting.

Section 7.5 Audits. The accounts, books and records of the Corporation shall be audited upon the conclusion of each fiscal year by an independent certified public accountant selected by the Board of Directors, and it shall be the duty of the Board of Directors to cause such audit to be made annually.

Section 7.6 Resignations. Any director or any officer, whether elected or appointed, may resign at any time by serving written notice of such resignation on the Chairman of the Board, the Chief Executive Officer or the Secretary, or by submitting such resignation by electronic transmission (as such term is defined in the Delaware General Corporation Law), and such resignation shall be deemed to be effective as of the close of business on the date said notice is received by the Chairman of the Board, the Chief Executive Officer, or the Secretary or at such later date as is stated therein. No formal action shall be required of the Board of Directors or the stockholders to make any such resignation effective.

Section 7.7 Contracts. Except as otherwise required by law, the Certificate of Incorporation or these Bylaws, any contracts or other instruments may be executed and delivered in the name and on the behalf of the Corporation by such officer or officers of the Corporation as the Board of Directors may from time to time direct. Such authority may be general or confined to specific instances as the Board may determine. The Chairman of the Board, the Chief Executive Officer, the President or any Vice President may execute bonds, contracts, deeds, leases and other instruments to be made or executed for or on behalf of the Corporation. Subject to any restrictions imposed by the Board of Directors or the Chairman of the Board, the Chief Executive Officer, the President or any Vice President of the Corporation may delegate contractual powers to others under his jurisdiction, it being understood, however, that any such delegation of power shall not relieve such officer of responsibility with respect to the exercise of such delegated power.

Section 7.8 Proxies. Unless otherwise provided by resolution adopted by the Board of Directors, the Chairman of the Board, the Chief Executive Officer, the President or any Vice President may from time to time appoint any attorney or attorneys or agent or agents of the Corporation, in the name and on behalf of the Corporation, to cast the votes which the Corporation may be entitled to cast as the holder of stock or other securities in any other corporation or other entity, any of whose stock or other securities may be held by the Corporation, at meetings of the holders of the stock and other securities of such other corporation or other entity, or to consent in writing, in the name of the Corporation as such holder, to any action by such other corporation or other entity, and may instruct the person or persons so appointed as to the manner of casting such votes or giving such consent, and may execute or cause to be executed in the name and on behalf of the Corporation and under its corporate seal or

otherwise, all such written proxies or other instruments as he or she may deem necessary or proper in the premises.

Section 7.9 Fixing Record Date. In order that the Corporation may determine the stockholders entitled to notice of or to vote at any meeting of stockholders or any adjournment thereof, or entitled to receive payment of any dividend or other distribution or allotment of any rights, or entitled to exercise any rights in respect of any change, conversion or exchange of stock or for the purpose of any other lawful action, the Board of Directors may fix, in advance, a record date, which shall not be more than sixty (60) nor less than ten (10) days before the date of such meeting, nor more than sixty (60) days prior to any other action. A determination of stockholders of record entitled to notice of or to vote at a meeting of stockholders shall apply to any adjournment of the meeting; provided, however, that the Board of Directors may fix a new record date for the adjourned meeting. The manner of fixing a record date for the determination of stockholders entitled to express consent to corporate action in writing without a meeting shall be as provided for in Article II, Section 2.11.

ARTICLE VIII

AMENDMENTS

Section 8.1 Amendments. These Bylaws may be adopted, amended or repealed at any meeting of the Board of Directors by a resolution adopted by a majority of the Whole Board, provided notice of the proposed change was given in the notice of the meeting in a notice given no less than twenty-four (24) hours prior to the meeting. The stockholders shall also have the power to adopt, amend or repeal these Bylaws, provided that notice of the proposed change was given in the notice of the meeting and provided further that, in addition to any vote of the holders of any class or series of stock of the Corporation required by law or by the Certificate of Incorporation, the affirmative vote of the holders of at least fifty percent (50%) of the voting power of all of the then-outstanding shares of the capital stock of the Corporation entitled to vote generally in the election of directors, voting together as a single class, shall be required to adopt, amend or repeal any provision of these Bylaws.