

NORTHSTAR NEUROSCIENCE, INC.

**CHARTER OF THE NOMINATING AND CORPORATE OVERNANCE COMMITTEE
OF THE BOARD OF DIRECTORS**

(adopted February 16, 2006)

I. STATEMENT OF POLICY

This Charter specifies the scope of the responsibilities of the Nominating and Corporate Governance Committee (the “Committee”) of the Board of Directors (the “Board”) of Northstar Neuroscience, Inc. (the “Company”) and the manner in which those responsibilities shall be performed, including its structure, processes and membership requirements.

The primary responsibilities of the Committee are to: (i) identify individuals qualified to become Board members; (ii) recommend to the Board, director nominees for each election of directors; (iii) develop and recommend to the Board criteria for selecting qualified director candidates; (iv) consider committee member qualifications, appointment and removal; (v) recommend corporate governance principles applicable to the Company from time to time, as appropriate; and (vi) provide oversight in the evaluation of the Board and each committee.

II. ORGANIZATION AND MEMBERSHIP REQUIREMENTS

The Committee shall be comprised of at least three directors, each of whom shall satisfy the independence requirements of The Nasdaq Stock Market, Inc. (“Nasdaq”), provided that one director who does not meet the independence criteria of Nasdaq, but is not a current employee or officer, or an immediate family member of an employee or officer, may be appointed to the Committee, subject to the approval of the Board pursuant to, and subject to the further limitation under, the “exceptional and limited circumstances” exception as provided under the rules of Nasdaq.

The members of the Committee shall be appointed by the Board and shall serve until their successors are duly elected and qualified or their earlier death, resignation or removal. Any member of the Committee may be removed or replaced by the Board. Unless a chairman is elected by the full Board, the members of the Committee may designate a chairman by majority vote of the full Committee membership. The Committee may, from time to time, delegate duties or responsibilities to subcommittees or to one member of the Committee.

The Committee shall have the authority to obtain advice or assistance from consultants, legal counsel, accounting or other advisors as appropriate to perform its duties hereunder, and to determine the terms, costs and fees for such engagements. Without limitation, the Committee shall have the sole authority to retain or terminate any search firm to be used to identify director candidates and to determine and approve the terms, costs and fees for such engagements. The fees and costs of any consultant or advisor engaged by the Committee to assist the Committee in performing its duties hereunder shall be borne by the Company.

III. MEETINGS

The Committee shall meet as often as it deems appropriate, but no less frequently than annually, and may meet with management or individual directors at any time it deems appropriate to discuss any matters before the Committee.

A majority of the members shall represent a quorum of the Committee, and, if a quorum is present, any action approved by at least a majority of the members present shall represent the valid action of the Committee.

The Committee shall maintain written minutes of its meetings, which minutes will be filed with the minutes of the meetings of the Board.

IV. COMMITTEE AUTHORITY AND RESPONSIBILITIES

To fulfill its responsibilities and duties hereunder, the Committee shall:

A. Nominating Functions

1. Identify and actively seek individuals qualified to become directors.
2. Evaluate and recommend to the Board, director nominees for each election of directors or otherwise to fill vacancies, except that if the Company is at any time legally required by contract or otherwise to provide any third party with the ability to nominate a director, the Committee need not evaluate or propose such nomination, unless required by contract or requested by the Board.
3. Develop criteria for selecting new directors, including desired board skills and attributes.
4. Review and make recommendations to the Board concerning qualifications, appointment and removal of committee members.
5. Review and make recommendations to the Board concerning Board and committee compensation.
6. Consider any nominations of director candidates validly made by shareholders in accordance with applicable laws, rules or regulations.

B. Corporate Governance Functions

1. If so requested by the Board, recommend for Board approval, and review on an ongoing basis the adequacy of, the corporate governance principles applicable to the Company. Such principles shall include director qualification standards, director responsibilities, committee responsibilities, director access to management and independent advisors, director compensation, director orientation and continuing education, management succession and annual performance evaluation of the Board and committees.

2. Review, at least annually, the Company's compliance with the Nasdaq corporate governance listing requirements, and report to the Board regarding the same.
3. Evaluate the Committee's own performance on an annual basis.
4. If requested by the Board, assist the Board in developing criteria for, and in its evaluation of, the performance of the Board and each committee of the Board.
5. Review and recommend to the Board changes to the Company's bylaws as needed.
6. Develop orientation materials for new directors and corporate governance-related continuing education for all Board members.
7. Make regular reports to the Board regarding the foregoing.
8. Review and reassess the adequacy of this Charter and recommend any proposed changes to the Board for approval.
9. Perform any other activities consistent with this Charter, the Company's Bylaws and governing law, as the Committee or the Board deems necessary or appropriate.