

As Approved June 18, 2004

AMENDED AND RESTATED

BY-LAWS

OF

FREESCALE SEMICONDUCTOR, INC.

Incorporated under the Laws of the State of Delaware

ARTICLE I

OFFICES AND RECORDS

SECTION 1.1. Offices. The Corporation may have such 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 1.2. Books and Records. The books and records of the Corporation may be kept outside the State of Delaware at such place or places 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 on such date and at such place and time as may be fixed by resolution of the Board of Directors.

SECTION 2.2. Special Meeting. Except as otherwise required by law or provided by resolution of the Board of Directors designating the rights, powers and preferences of Preferred Stock, and except as set forth in the Corporation's Certificate of Incorporation, as amended or restated (the "Certificate of Incorporation"), special meetings of the stockholders may be called only by the Chairman of the Board of Directors or by the Board of Directors pursuant to a resolution adopted by a majority of the members of the Board of Directors.

SECTION 2.3. Place of Meeting. The Board of Directors or the Chairman of the Board, as the case may be, may designate the place of meeting for any annual meeting or for any special meeting of the stockholders called by the Board of Directors or the Chairman of the

Board. If no designation is so made, the place of meeting shall be the principal office of the Corporation.

SECTION 2.4. Notice of Meeting. Written or printed notice, stating the place, if any, date and time of the meeting, and the means of remote communications, if any, by which stockholders and proxyholders may be deemed to be present in person and vote at such meeting, shall be 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 by other lawful means, 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 United States mail with postage thereon prepaid, addressed to the stockholder at his address as it appears on the stock transfer books of the Corporation. Such further notice shall be given as may be required by law. 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. Meetings may be held without notice if all stockholders entitled to vote are present, or if notice is waived by those not present in accordance with Section 6.6 of these By-Laws. Any previously scheduled meeting of the stockholders may be postponed, and (unless the Certificate of Incorporation otherwise provides) any special meeting of the stockholders may be cancelled, by resolution of the Board of Directors upon public notice given prior to the date 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 total voting power of all classes of the then-outstanding capital stock of the Corporation entitled to vote generally in the election of directors (the "Voting Stock"), 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 of stock voting as a class, the holders of a majority of the then-outstanding shares of such class or series shall constitute a quorum of such class or series for the transaction of such business. The Chairman of the meeting or the holders of shares representing a majority of the votes entitled to be cast by the shares constituting the quorum so present may adjourn the meeting from time to time, whether or not there is such a quorum. No notice of the time and place of adjourned meetings need be given except as required by law; provided, however, that if the date of any adjourned meeting is more than thirty (30) days after the date for which the meeting was originally noticed, or if a new record date is fixed for the adjourned meeting, notice of the place, if any, date, and time of the adjourned meeting and the means of remote communications, if any, by which stockholders and proxyholders may be deemed to be present in person and vote at such adjourned meeting shall be given in conformity herewith. The stockholders present at a duly called meeting at which a quorum is present may continue to transact business until adjournment, notwithstanding the withdrawal of enough stockholders to leave less than a quorum.

SECTION 2.6. Conduct of Business. The chairman of any meeting of stockholders shall determine the order of business and the procedure at the meeting, including such regulation of the manner of voting and the conduct of discussion as seem to him or her in order. The chairman shall have the power to adjourn the meeting to another place, if any, date and time. The date and time of the opening and closing of the polls for each matter upon which the stockholders will vote at the meeting shall be announced at the meeting.

SECTION 2.7. Proxies. At all meetings of stockholders, a stockholder may vote by proxy executed in writing (or in such manner prescribed by the General Corporation Law of the State of Delaware) by the stockholder, or by his duly authorized attorney in fact. Such proxy must be filed with the Secretary of the Corporation or his representative at or before the time of the meeting.

SECTION 2.8. 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 business to be considered by the stockholders may be made at an annual meeting of stockholders (a) pursuant to the Corporation's notice of meeting, (b) by or at the direction of the Board of Directors or (c) by any stockholder of the Corporation who was a stockholder of record at the time of giving of notice provided for in this By-Law, who is entitled to vote at the meeting and who complies with the notice procedures set forth in this By-Law.

(2) For nominations or other business to be properly brought before an annual meeting by a stockholder pursuant to clause (c) of paragraph (A)(1) of this By-Law, the stockholder must have given timely notice thereof in writing to the Secretary of the Corporation, and such other business must otherwise be 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 45th day nor earlier than the close of business on the 75th day prior to the first anniversary of the preceding year's annual meeting (provided, that, with respect to the annual meeting to be held in 2005, the "anniversary date" shall be deemed to be May 1, 2005); provided, however, that in the event that the date of the annual meeting is more than thirty (30) days before or more than thirty (30) days after such anniversary date, notice by the stockholder to be timely must be so delivered not earlier than the 75th day prior to such annual meeting and not later than the close of business on the later of (i) the 45th day prior to such annual meeting or (ii) the 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 of an annual meeting commence a new 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 or reelection as a director 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 Regulation 14A under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and such person's written consent to serve as a director if elected; (b) as to any other business that the stockholder proposes to bring before the meeting, a brief description of the business desired to be brought before the meeting, 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 and (ii) the class and number of shares of the Corporation which are owned beneficially and of record by such stockholder and such beneficial owner.

(3) Notwithstanding anything in the second sentence of paragraph (A)(2) of this By-Law to the contrary, in the event that the number of directors to be elected to the Board of Directors of the Corporation is increased and there is no public announcement by the Corporation naming all of the nominees for director or specifying the size of the increased Board of Directors at least fifty-five (55) days prior to the first anniversary of the preceding year's annual meeting, a stockholder's notice required by this By-Law shall also be considered timely, but only with respect to nominees for any new positions created by such increase, 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 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 (a) by or at the direction of the Board of Directors or (b) 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 of giving of notice provided for in this By-Law, who shall be entitled to vote at the meeting and who complies with the notice procedures set forth in this By-Law. 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 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 By-Law shall be delivered to the Secretary at the principal executive offices of the Corporation not earlier than the close of business on the 75th day prior to such special meeting and not later than the close of business on the later of the 45th day prior to such special meeting or the 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 of a special meeting commence a new time period for the giving of a stockholder's notice as described above.

(C) General. (1) Only such persons who are nominated in accordance with the procedures set forth in this By-Law shall be eligible 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 By-Law. Except as otherwise provided by law, the Certificate of Incorporation or these By-Laws, the chairman of the meeting shall have the power and duty 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 By-Law and, if any proposed nomination or business is not in compliance with this By-Law, to declare that such defective proposal or nomination shall be disregarded.

(2) For purposes of this By-Law, "public announcement" shall mean disclosure in a press release reported by the Dow Jones News Service, Associated Press or comparable 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.

(3) Notwithstanding the foregoing provisions of this By-Law, a stockholder shall also comply with all applicable requirements of the Exchange Act and the rules and regulations thereunder with respect to the matters set forth in this By-Law. Nothing in this By-Law shall be deemed to affect any rights (i) of stockholders to request inclusion of proposals in the Corporation's proxy statement pursuant to Rule 14a-8 under the Exchange Act or (ii) of the holders of any series of Preferred Stock to elect directors under specified circumstances.

(D) Motorola. Notwithstanding anything to the contrary contained in these By-Laws, nominations of persons for election to the Board of Directors or the proposal of business to be considered by the stockholders by Motorola, Inc. ("Motorola") shall not be subject to the notice requirements and procedures of Section 2.4 and this Section 2.8.

SECTION 2.9. Procedure for Election of Directors; Required Vote. Election of directors at all meetings of the stockholders at which directors are to be elected shall be by ballot, and, subject to the rights of the holders of any series of Preferred Stock to elect directors under specified circumstances, a plurality of the votes cast thereat shall elect directors. Except as otherwise provided by law or applicable listing standards, the Certificate of Incorporation or these By-Laws, in all matters other than the election of directors the affirmative vote of shares representing a majority of the votes entitled to be cast by shares actually present in person or represented by proxy at the meeting and entitled to vote on the matter shall be the act of the stockholders.

SECTION 2.10. Inspectors of Elections; Opening and Closing the Polls. 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, to act at the meetings of stockholders 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 is able 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 law.

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.

SECTION 2.11. Stockholder Action by Written Consent. Until such time as Motorola and its subsidiaries (excluding the Corporation and its subsidiaries) cease to beneficially own shares representing a majority of the total voting power of the Voting Stock, any action required or permitted to be taken by stockholders may be taken without a meeting, without prior notice and without a vote, if a consent or consents in writing, setting forth the action so taken, shall be signed by the holders of outstanding capital stock having not less than the minimum number of votes that would be necessary to authorize or take such action at a meeting at which all shares of Voting Stock were present and voted. At such time as Motorola and its subsidiaries (excluding the Corporation and its subsidiaries) cease to beneficially own

shares representing a majority of the total voting power of the Voting Stock, except as otherwise provided by the resolution or resolutions adopted by the Board of Directors designating the rights, powers and preferences of any Preferred Stock, any action required or permitted to be taken by stockholders may be effected only at a duly called annual or special meeting of stockholders and may not be effected by a written consent or consents by stockholders in lieu of such a meeting.

SECTION 2.12. Stock List. A complete list of stockholders entitled to vote at any meeting of stockholders, arranged in alphabetical order for each class of stock and showing the address of each such stockholder and the number of shares registered in his or her name, shall be open to the examination of any such stockholder for a period of at least 10 days prior to the meeting in the manner provided by law. The stock list shall also be open to the examination of any stockholder during the whole time of the meeting as provided by law. This list shall presumptively determine the identity of the stockholders entitled to vote at the meeting and the number of shares held by each of them. So long as Motorola and its subsidiaries (excluding the Corporation and its subsidiaries) beneficially own shares representing a majority of the total voting power of the voting stock, upon the request of Motorola, the stock list shall be provided to Motorola.

ARTICLE III

BOARD OF DIRECTORS

SECTION 3.1. General Powers. The business and affairs of the Corporation shall be managed under the direction of the Board of Directors. In addition to the powers and authorities by these By-Laws expressly conferred upon them, the Board of Directors may exercise all such powers of the Corporation and do all such lawful acts and things as are not by statute or by the Certificate of Incorporation or by these By-Laws required to be exercised or done by the stockholders.

SECTION 3.2. Number, Tenure and Qualifications. Subject to the rights of the holders of any series of Preferred Stock to elect directors under specified circumstances, the number of directors shall be fixed from time to time exclusively pursuant to a resolution adopted by a majority of the entire Board of Directors. The directors, other than those who may be elected by the holders of any series of Preferred Stock under specified circumstances, shall be divided, with respect to the time for which they severally hold office, into three classes, as nearly equal in number as is reasonably possible and designated Class I, Class II and Class III. Class I shall be initially elected for a term expiring at the annual meeting of stockholders to be held in 2005, Class II shall be initially elected for a term expiring at the annual meeting of stockholders to be held in 2006, and Class III shall be initially elected for a term expiring at the annual meeting of stockholders to be held in 2007. Members of each class shall hold office until their successors are elected and qualified. At each succeeding annual meeting of the stockholders of the Corporation, the successors of the class of directors whose term expires at that meeting shall be elected for a term expiring at the annual meeting of stockholders held in the third year following the year of their election. In case of any increase or decrease, from time to time, in the number of directors, other than those who may be elected by the holders of any class or series of

Preferred Stock, the number of directors in each class shall be apportioned as nearly equal as possible.

SECTION 3.3. Regular Meetings. Regular meetings of the Board of Directors shall be held at such place or places, on such date or dates, and at such time or times as shall have been established by the Board of Directors and publicized among all directors. A notice of each regular meeting shall not be required.

SECTION 3.4. Special Meetings. Special meetings of the Board of Directors shall be called by the Chairman of the Board of Directors, the Chief Executive Officer or a majority of the Board of Directors then in office or, until such time as Motorola and its subsidiaries (excluding the Corporation and its subsidiaries) cease to beneficially own shares representing a majority of the total voting power of the Voting Stock, Motorola. 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. Notice. Notice of any special meeting of directors shall be given to each director at his business or residence in writing by hand delivery, first-class or overnight mail or courier service, facsimile transmission, electronic transmission or orally by telephone. If mailed by first-class mail, 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 overnight mail or courier service, such notice shall be deemed adequately delivered when the notice is delivered to the overnight mail or courier service company at least twenty-four (24) hours before such meeting. If by telephone, hand delivery, facsimile transmission or electronic transmission, such notice shall be deemed adequately delivered when the notice is transmitted at least twenty-four (24) hours before such 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 By-Laws, as provided under Section 8.1. A meeting may be held at any time without notice if all the directors are present or if those not present waive notice of the meeting in accordance with Section 6.6 of these By-Laws.

SECTION 3.6. Action by Consent of Board of Directors. Any action required or permitted to be taken at any meeting of the Board of Directors or of any committee thereof may be taken without a meeting if all members of the Board or committee, as the case may be, consent thereto in writing, and the writing or writings are filed with the minutes of proceedings of the Board or committee.

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. Subject to Section 3.9, at all meetings of the Board of Directors, directors entitled to cast a majority of the votes of the entire Board of Directors 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, the directors entitled to cast a majority of votes present may adjourn the meeting from time to time without further notice. The directors entitled to cast a majority of votes present at a meeting at which a quorum is present shall be the act of the Board of Directors.

SECTION 3.9. Vacancies. Subject to applicable law and the rights of the holders of any series of Preferred Stock with respect to such series of Preferred Stock, and unless the Board of Directors otherwise determines, vacancies resulting from death, resignation, retirement, disqualification, removal from office or other cause, and newly created directorships resulting from any increase in the authorized number of directors, may be filled only by the affirmative vote of a majority of the remaining directors, though less than a quorum of the Board of Directors, and directors so chosen shall hold office for a term expiring at the annual meeting of stockholders at which the term of office of the class to which they have been elected expires and until such director's successor shall have been duly elected and qualified; provided, however, that, until Motorola and its subsidiaries (other than the Corporation and its subsidiaries) ceases to beneficially own shares representing a majority of the total voting power of the Voting Stock, if such vacancy was caused by the action of the stockholders, such vacancy may only be filled by the affirmative vote of the holders of at least a majority of the Voting Stock. No decrease in the number of authorized directors shall shorten the term of any incumbent director.

SECTION 3.10. Committees of the Board of Directors. The Board of Directors may from time to time designate committees of the Board of Directors, with such lawfully delegable powers and duties as it thereby confers, to serve at the pleasure of the Board of Directors and shall, for those committees and any others provided for herein, elect a director or directors to serve as the member or members, designating, if it desires, other directors as alternate members who may replace any absent or disqualified member at any meeting of the committee. In the absence or disqualification of any member of any committee and any alternate member in his or her place, the member or members of the committee present at the meeting and not disqualified from voting, whether or not he or she or they constitute a quorum, may by unanimous vote appoint another member of the Board of Directors to act at the meeting in the place of the absent or disqualified member.

Each committee may determine the procedural rules for meeting and conducting its business and shall act in accordance therewith, except as otherwise provided herein or required by law. Adequate provision shall be made for notice to members of all meetings; one-third (1/3) of the members shall constitute a quorum unless the committee shall consist of one (1) or two (2) members, in which event one (1) member shall constitute a quorum; and all matters shall be determined by a majority vote of the members present. Action may be taken by any committee without a meeting if all members thereof consent thereto in writing or by electronic transmission, and the writing or writings or electronic transmission or transmissions are filed with the minutes of the proceedings of such committee. Such filing shall be in paper form if the minutes are maintained in paper form and shall be in electronic form if the minutes are maintained in electronic form.

SECTION 3.11. Removal. Except as otherwise provided by the resolution or resolutions adopted by the Board of Directors designating the rights, powers and preferences of any Preferred Stock, any director or the entire Board of Directors may be removed from office at

any time with or without cause, but only by the affirmative vote of the holders of at least a majority of the total voting power of the Voting Stock; provided, however, that, from and after the date that Motorola and its subsidiaries (other than the Corporation and its subsidiaries) ceases to beneficially own shares representing a majority of the total voting power of the Voting Stock, directors may only be removed for cause and only by the affirmative vote of not less than 80% of the total voting power of the Voting Stock.

SECTION 3.12. Records. The Board of Directors shall cause to be kept a record containing the minutes of the proceedings of the meetings of the Board of Directors and of the stockholders, appropriate stock books and registers and such books of records and accounts as may be necessary for the proper conduct of the business of the Corporation.

ARTICLE IV

OFFICERS

SECTION 4.1. Elected Officers. The elected officers of the Corporation shall be a Chairman of the Board of Directors, a Chief Executive Officer, a Secretary, a Treasurer and such other officers (including, without limitation, a Chief Financial Officer) as the Board of Directors from time to time may deem proper. The Chairman of the Board of Directors shall be chosen from among the directors. All officers elected 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 such powers and duties as from time to time may be conferred by the Board of Directors or by any committee thereof. The Board of Directors or any committee thereof may from time to time elect, or the Chairman of the Board of Directors or Chief Executive Officer may appoint, such other officers (including one or more Assistant Vice Presidents, Assistant Secretaries, Assistant Treasurers and Assistant Controllers) and such agents, as may be necessary or desirable for the conduct of the business of the Corporation. Such other officers and agents shall have such duties and shall hold their offices for such terms as shall be provided in these By-Laws or as may be prescribed by the Board of Directors or such committee or by the Chairman of the Board of Directors or Chief Executive Officer, as the case may be.

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 the 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. Each officer shall hold office until his successor shall have been duly elected and shall have qualified or until his death or until he shall resign, but any officer may be removed from office at any time by the affirmative vote of a majority of the members of the Board of Directors or, except in the case of an officer or agent elected by the Board, by the Chairman of the Board or Chief Executive Officer. Such removal shall be without prejudice to the contractual rights, if any, of the person so removed.

SECTION 4.3. Chairman of the Board. The Chairman of the Board of Directors shall preside at all meetings of the stockholders and of the Board of Directors. The Chairman of the Board of Directors shall be responsible for the general management of the affairs of the

Corporation and shall perform all duties incidental to his office which may be required by law and all such other duties as are properly required of him by the Board of Directors. He shall make reports to the Board of Directors and the stockholders, and shall see that all orders and resolutions of the Board of Directors and of any committee thereof are carried into effect. The Chairman of the Board of Directors may also serve as Chief Executive Officer, if so elected by the Board of Directors.

SECTION 4.4. Chief Executive Officer. The Chief Executive Officer shall act in a general executive capacity and shall assist the Chairman of the Board of Directors in the administration and operation of the Corporation's business and general supervision of its policies and affairs. In the event the Chief Executive Officer does not also serve as Chairman, the Chief Executive Officer shall, in the absence of, or because of the inability to act of, the Chairman of the Board of Directors, perform all duties of the Chairman of the Board of Directors and preside at all meetings of stockholders and of the Board of Directors.

SECTION 4.5. Vice-Presidents. Each Vice President shall have such powers and shall perform such duties as shall be assigned to him by the Board of Directors.

SECTION 4.6. Chief Financial Officer. The Chief Financial Officer (if any) shall act in an executive financial capacity. He shall assist the Chairman of the Board of Directors and the Chief Executive Officer in the general supervision of the Corporation's financial policies and affairs.

SECTION 4.7. Treasurer. The Treasurer shall exercise general supervision over the receipt, custody and disbursement of corporate funds. The Treasurer shall cause the funds of the Corporation to be deposited in such banks as may be authorized by the Board of Directors, or in such banks as may be designated as depositories in the manner provided by resolution of the Board of Directors. He shall have such further powers and duties and shall be subject to such directions as may be granted or imposed upon him from time to time by the Board of Directors, the Chairman of the Board of Directors or the Chief Executive Officer.

SECTION 4.8. Secretary. The Secretary shall keep, or cause to be kept in one or more books provided for that purpose, the minutes of all meetings of the Board of Directors, the committees of the Board of Directors and the stockholders; he shall see that all notices are duly given in accordance with the provisions of these By-Laws and as required by law; he shall be custodian of the records and the seal of the Corporation and affix and attest the seal to all stock certificates of the Corporation (unless the seal of the Corporation on such certificates shall be a facsimile, as hereinafter provided) and affix and attest the seal to all other documents to be executed on behalf of the Corporation under its seal; and he shall see that the books, reports, statements, certificates and other documents and records required by law to be kept and filed are properly kept and filed; and in general, he shall perform all the duties incident to the office of Secretary and such other duties as from time to time may be assigned to him by the Board of Directors, the Chairman of the Board of Directors or the Chief Executive Officer.

SECTION 4.9. Removal. Any officer elected, or agent appointed, by the Board of Directors may be removed by the affirmative vote of a majority of the entire Board of Directors whenever, in their judgment, the best interests of the Corporation would be served

thereby. Any officer or agent appointed by the Chairman of the Board of Directors or the Chief Executive Officer may be removed by him whenever, in his 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 under an employee deferred compensation plan.

SECTION 4.10. Vacancies. A newly created elected office and a vacancy in any elected 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. Any vacancy in an office appointed by the Chairman of the Board of Directors or the Chief Executive Officer because of death, resignation or removal may be filled by the Chairman of the Board of Directors or the Chief Executive Officer.

ARTICLE V

STOCK

SECTION 5.1. Stock Certificates and Transfers. The interest of each stockholder of the Corporation shall be evidenced by certificates for shares of stock in such form as the appropriate officers of the Corporation may from time to time prescribe. The shares of the stock of the Corporation shall be transferred on the books of the Corporation by the holder thereof in person or by his attorney, upon surrender for cancellation of certificates for at least the same number of shares, with an assignment and power of transfer endorsed thereon or attached thereto, duly executed, with such proof of the authenticity of the signature as the Corporation or its agents may reasonably require.

The certificates of stock shall be signed, countersigned and registered in such manner as the Board of Directors may by resolution prescribe, which resolution may permit all or any of the signatures on such certificates to be in 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 were such officer, transfer agent or registrar at the date of issue.

SECTION 5.2. Record Date. In order that the Corporation may determine the stockholders entitled to notice of or to vote at any meeting of stockholders, or to receive payment of any dividend or other distribution or allotment of any rights or 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, except as otherwise required by law, fix a record date, which record date shall not precede the date on which the resolution fixing the record date is adopted and which record date shall not be more than sixty (60) nor less than ten (10) days before the date of any meeting of stockholders, nor more than sixty (60) days prior to the time for such other action as hereinbefore described; provided, however, that if no record date is fixed by the Board of Directors, the record date for determining stockholders entitled to notice of or to vote at a meeting of stockholders shall be at the close of business on the day next preceding the day on

which notice is given or, if notice is waived, at the close of business on the day next preceding the day on which the meeting is held, and, for determining stockholders entitled to receive payment of any dividend or other distribution or allotment of rights or to exercise any rights of change, conversion or exchange of stock or for any other purpose, the record date shall be at the close of business on the day on which the Board of Directors adopts a resolution relating thereto.

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.

SECTION 5.3. Lost, Stolen or Destroyed Certificates. No certificate for shares of stock in the Corporation shall be issued in place of any certificate alleged to have been lost, destroyed or stolen, except on production of such evidence of such loss, destruction or theft and on delivery to the Corporation of a bond of indemnity in such amount, upon such terms and secured by such surety, as the Board of Directors or any financial officer may in its or his discretion require.

ARTICLE VI

MISCELLANEOUS PROVISIONS

SECTION 6.1. Fiscal Year. The fiscal year of the Corporation shall be as fixed by the Board of Directors.

SECTION 6.2. Dividends. The Board of Directors may from time to time declare, and the Corporation may pay, dividends on its outstanding shares in the manner and upon the terms and conditions provided by law and the Certificate of Incorporation.

SECTION 6.3. Seal. The corporate seal shall have encribed thereon the words “Corporate Seal,” the year of incorporation and around the margin thereof the words “Freescale Semiconductor, Inc. - Delaware.”

SECTION 6.4. Facsimile Signatures. In addition to the provisions for use of facsimile signatures elsewhere specifically authorized in these By-Laws, facsimile signatures of any officer or officers of the Corporation may be used whenever and as authorized by the Board of Directors or a committee thereof.

SECTION 6.5. Reliance upon Books, Reports and Records. Each director, each member of any committee designated by the Board of Directors and each officer of the Corporation shall, in the performance of his or her duties, be fully protected in relying in good faith upon the books of account or other records of the Corporation and upon such information, opinions, reports or documents presented to the Corporation by any of its officers or employees, or committees of the Board of Directors so designated, or by any other person as to matters which such director or committee member reasonably believes are within such other person’s professional or expert competence and who has been selected with reasonable care by or on behalf of the Corporation.

SECTION 6.6. Waiver of Notice. Whenever any notice is required to be given to any stockholder or director of the Corporation under the provisions of the General Corporation Law of the State of Delaware or these By-Laws, a waiver thereof in writing, signed by the person or persons entitled to such notice, 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 or the Board of Directors or committee thereof need be specified in any waiver of notice of such meeting.

SECTION 6.7. 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 done annually.

SECTION 6.8. Resignations. Any director or any officer, whether elected or appointed, may resign at any time by giving written notice of such resignation to the Chairman of the Board of Directors, the Chief Executive Officer or the Secretary, 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 of Directors, the Chief Executive Officer or the Secretary, or at such later time as is specified therein. No formal action shall be required of the Board of Directors or the stockholders to make any such resignation effective.

SECTION 6.9. Indemnification and Insurance. (A) Each person who was or is made a party or is threatened to be made a party to or is 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 or a person of whom he or she is the legal representative 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 employee benefit plans maintained or sponsored by the Corporation, whether the basis of such proceeding is alleged action in an official capacity as a director, officer, employee or agent or in any other capacity while serving as a director, officer, employee or agent, shall be indemnified and held harmless by the Corporation to the fullest extent authorized by the General Corporation Law of the State of Delaware 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 said law permitted the Corporation to provide prior to such amendment), against all expense, liability and loss (including attorneys’ fees, judgments, fines, ERISA excise taxes or penalties and amounts paid or to be paid in settlement) reasonably incurred or suffered by such person in connection therewith, and such indemnification shall continue as to a person who has ceased to be a director, officer, employee or agent and shall inure to the benefit of his or her heirs, executors and administrators; provided, however, that except as provided in paragraph (C) of this By-Law, the Corporation shall indemnify any such person seeking indemnification in connection with a proceeding (or part thereof) initiated by such person only if such proceeding (or part thereof) was authorized by the Board of Directors. The right to indemnification conferred in this By-Law shall be a contract right and shall include the right to be paid by the Corporation the expenses incurred in defending any such proceeding in advance of its final disposition, such advances to be paid by the Corporation within 20 days after the receipt by the Corporation of a statement or statements from

the claimant requesting such advance or advances from time to time; provided, however, that if the General Corporation Law of the State of Delaware requires, the payment of such expenses incurred by a director or officer 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 person while a director or officer, including, without limitation, service to an employee benefit plan) in advance of the final disposition of a proceeding, shall be made only upon delivery to the Corporation of an undertaking by or on behalf of such director or officer, to repay all amounts so advanced if it shall ultimately be determined that such director or officer is not entitled to be indemnified under this By-Law or otherwise.

(B) To obtain indemnification under this By-Law, a claimant shall submit to the Corporation a written request, including therein or therewith such documentation and information as is reasonably available to the claimant and is reasonably necessary to determine whether and to what extent the claimant is entitled to indemnification. Upon written request by a claimant for indemnification pursuant to the first sentence of this paragraph (B), a determination, if required by applicable law, with respect to the claimant's entitlement thereto shall be made as follows: (1) if requested by the claimant, by Independent Counsel (as hereinafter defined), or (2) if no request is made by the claimant for a determination by Independent Counsel, (i) by the Board of Directors by a majority vote of a quorum consisting of Disinterested Directors (as hereinafter defined), or (ii) if a quorum of the Board of Directors consisting of Disinterested Directors is not obtainable or, even if obtainable, such quorum of Disinterested Directors so directs, by Independent Counsel in a written opinion to the Board of Directors, a copy of which shall be delivered to the claimant, or (iii) if a quorum of Disinterested Directors so directs, by the stockholders of the Corporation. In the event the determination of entitlement to indemnification is to be made by Independent Counsel at the request of the claimant, the Independent Counsel shall be selected by the Board of Directors unless there shall have occurred within two years prior to the date of the commencement of the action, suit or proceeding for which indemnification is claimed a "Change in Control" as defined in the Change in Control Severance Plan of the Corporation, adopted on June 18, 2004, in which case the Independent Counsel shall be selected by the claimant unless the claimant shall request that such selection be made by the Board of Directors. If it is so determined that the claimant is entitled to indemnification, payment to the claimant shall be made within 10 days after such determination.

(C) If a claim under paragraph (A) of this By-Law is not paid in full by the Corporation within thirty days after a written claim pursuant to paragraph (B) of this By-Law has been received by the Corporation, the claimant may at any time thereafter bring suit against the Corporation to recover the unpaid amount of the claim and, if successful in whole or in part, the claimant shall be entitled to be paid also the expense of prosecuting such claim. It shall be a defense to any such action (other than an action brought to enforce a claim for expenses incurred in defending any proceeding in advance of its final disposition where the required undertaking, if any is required, has been tendered to the Corporation) that the claimant has not met the standard of conduct which makes it permissible under the General Corporation Law of the State of Delaware for the Corporation to indemnify the claimant for the amount claimed, but the burden of proving such defense shall be on the Corporation. Neither the failure of the Corporation (including its Board of Directors, Independent Counsel or stockholders) to have made a determination prior to the commencement of such action that indemnification of the claimant is proper in the circumstances because he or she has met the applicable standard of conduct set

forth in the General Corporation Law of the State of Delaware, nor an actual determination by the Corporation (including its Board of Directors, Independent Counsel or stockholders) that the claimant has not met such applicable standard of conduct, shall be a defense to the action or create a presumption that the claimant has not met the applicable standard of conduct.

(D) If a determination shall have been made pursuant to paragraph (B) of this By-Law that the claimant is entitled to indemnification, the Corporation shall be bound by such determination in any judicial proceeding commenced pursuant to paragraph (C) of this By-Law.

(E) The Corporation shall be precluded from asserting in any judicial proceeding commenced pursuant to paragraph (C) of this By-Law that the procedures and presumptions of this By-Law are not valid, binding and enforceable and shall stipulate in such proceeding that the Corporation is bound by all the provisions of this By-Law.

(F) The right to indemnification and the payment of expenses incurred in defending a proceeding in advance of its final disposition conferred in this By-Law shall not be exclusive of any other right which any person may have or hereafter acquire under any statute, provision of the Certificate of Incorporation, By-Laws, agreement, vote of stockholders or Disinterested Directors or otherwise. No repeal or modification of this By-Law shall in any way diminish or adversely affect the rights of any director, officer, employee or agent of the Corporation hereunder in respect of any occurrence or matter arising prior to any such repeal or modification.

(G) 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 General Corporation Law of the State of Delaware. To the extent that the Corporation maintains any policy or policies providing such insurance, each such director or officer, and each such agent or employee to which rights to indemnification have been granted as provided in paragraph (H) of this By-Law, shall be covered by such policy or policies in accordance with its or their terms to the maximum extent of the coverage thereunder for any such director, officer, employee or agent.

(H) The Corporation may, to the extent authorized from time to time by the Board of Directors, grant rights to indemnification, and rights to be paid by the Corporation the expenses incurred in defending any proceeding in advance of its final disposition, to any employee or agent of the Corporation to the fullest extent of the provisions of this By-Law with respect to the indemnification and advancement of expenses of directors and officers of the Corporation.

(I) If any provision or provisions of this By-Law shall be held to be invalid, illegal or unenforceable for any reason whatsoever: (1) the validity, legality and enforceability of the remaining provisions of this By-Law (including, without limitation, each portion of any paragraph of this By-Law containing any such provision held to be invalid, illegal or unenforceable, that is not itself held to be invalid, illegal or unenforceable) shall not in any way be affected or impaired thereby; and (2) to the fullest extent possible, the provisions of this By-

Law (including, without limitation, each such portion of any paragraph of this By-Law containing any such provision held to be invalid, illegal or unenforceable) shall be construed so as to give effect to the intent manifested by the provision held invalid, illegal or unenforceable.

(J) For purposes of this By-Law:

(1) “Disinterested Director” means a director of the Corporation who is not and was not a party to the matter in respect of which indemnification is sought by the claimant.

(2) “Independent Counsel” means a law firm, a member of a law firm, or an independent practitioner, that is experienced in matters of corporation law and shall include any person who, under the applicable standards of professional conduct then prevailing, would not have a conflict of interest in representing either the Corporation or the claimant in an action to determine the claimant’s rights under this By-Law.

(K) Any notice, request or other communication required or permitted to be given to the Corporation under this By-Law shall be in writing and either delivered in person or sent by telecopy, telex, telegram, overnight mail or courier service, or certified or registered mail, postage prepaid, return receipt requested, to the Secretary of the Corporation and shall be effective only upon receipt by the Secretary.

ARTICLE VII

CONTRACTS, PROXIES, ETC.

SECTION 7.1. Contracts. Except as otherwise required by law, the Certificate of Incorporation or these By-Laws, 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 of Directors may determine. The Chairman of the Board of Directors, the Chief Executive Officer or such other persons as the Board of Directors so determines 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 of Directors, the Chief Executive Officer or such other persons as the Board of Directors so determines may delegate contractual powers to others under his jurisdiction, it being understood, however, that any such delegation of power shall not relieve such person of responsibility with respect to the exercise of such delegated power.

SECTION 7.2. Proxies. Unless otherwise provided by resolution adopted by the Board of Directors, the Chairman of the Board of Directors, the Chief Executive Officer or any Vice President may from time to time appoint an 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, any of whose stock or other securities may be held by the Corporation, at meetings of the holders of the stock or other securities of such other corporation, or to consent in writing,

in the name of the Corporation as such holder, to any action by such other corporation, 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 may deem necessary or proper in the premises.

ARTICLE VIII

AMENDMENTS

SECTION 8.1. Amendments. These By-Laws may be altered, amended or repealed at any meeting of the Board of Directors or of the stockholders, provided notice of the proposed change was given in the notice of the meeting and, in the case of a meeting of the Board of Directors, in a notice given not less than two days prior to the meeting; provided, however, that, in the case of amendments by the Board of Directors, notwithstanding any other provisions of these By-Laws or any provision of law which might otherwise permit a lesser vote or no vote, the affirmative vote of a majority of the members of the Board of Directors shall be required to alter, amend or repeal any provision of these By-Laws. In the case of amendments by stockholders, the affirmative vote of the holders of a majority of the voting power of all the Voting Stock shall be required to alter, amend or repeal any provision of these By-Laws; provided, however, that from and after the date that Motorola and its subsidiaries (other than the Corporation and its subsidiaries) ceases to beneficially own shares representing a majority of the total voting power of the Voting Stock, at least 80% of the voting power of all the Voting Stock shall be required to alter, amend or repeal Article II, Sections 2.1, 2.2, 2.4, 2.5, 2.8, 2.9, 2.11, Article III, Sections 3.1, 3.2, 3.9 and 3.11, and this Article VIII, Section 8.1 of these By-Laws, and the affirmative vote of the holders of a majority of the Voting Stock, shall be required to alter, amend or repeal any other provision of these By-Laws.