

===== SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

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

LEXICON GENETICS INCORPORATED
(EXACT NAME OF REGISTRANT AS SPECIFIED IN ITS CHARTER)

DELAWARE
(State or other jurisdiction of
incorporation or organization)

76-0474169
(I.R.S. Employer
Identification No.)

4000 RESEARCH FOREST DRIVE
THE WOODLANDS, TEXAS
(Address of Principal Executive Offices)

77381
(Zip Code)

2000 EQUITY INCENTIVE PLAN AND
2000 NON-EMPLOYEE DIRECTORS' STOCK OPTION PLAN
COELACANTH CORPORATION 1999 STOCK OPTION PLAN
(Full titles of the plans)

ARTHUR T. SANDS, M.D., PH.D.
PRESIDENT AND CHIEF EXECUTIVE OFFICER
4000 RESEARCH FOREST DRIVE
THE WOODLANDS, TEXAS 77381
(Name and address of agent for service)

(281) 364-0100
(Telephone number, including area code, of agent for service)

copies to:

DAVID P. OELMAN
VINSON & ELKINS L.L.P.
1001 FANNIN, 2300 FIRST CITY TOWER
HOUSTON, TEXAS 77002-6760
(713) 758-3708

JEFFREY L. WADE
EXECUTIVE VICE PRESIDENT AND GENERAL COUNSEL
LEXICON GENETICS INCORPORATED
4000 RESEARCH FOREST DRIVE
THE WOODLANDS, TEXAS 77381
(281) 364-0100

----- CALCULATION OF REGISTRATION FEE

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TITLE OF SECURITIES TO BE REGISTERED	AMOUNT TO BE REGISTERED (1)(2)	PROPOSED MAXIMUM OFFERING PRICE PER SHARE (3)	PROPOSED MAXIMUM AGGREGATE OFFERING PRICE (4)	AMOUNT OF REGISTRATION FEE (4)
Common Stock, par value \$0.001 per share.....	122,650 shares	\$2.71	\$332,381	\$83

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- (1) Pursuant to Rule 416(a), this registration statement shall cover any additional securities issued to prevent dilution resulting from stock splits, stock dividends or similar transactions.
- (2) In connection with its acquisition by merger of Coelacanth Corporation, the Registrant has assumed the outstanding stock options under the Coelacanth Corporation 1999 Stock Option Plan.
- (3) Calculated by dividing the proposed maximum aggregate offering price by 122,650, the amount of shares being registered.
- (4) Pursuant to Rule 457(h), the proposed maximum offering price and the registration fee were calculated based on the average exercise price at which the assumed stock options may be exercised.
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EXPLANATORY NOTE

Pursuant to the Agreement and Plan of Merger dated June 13, 2001 (the "Merger Agreement") by and among Lexicon Genetics Incorporated ("Registrant"), its wholly-owned subsidiary Angler Acquisition Corp. ("Merger Sub") and Coelacanth Corporation ("Coelacanth"), Merger Sub was merged with and into Coelacanth on July 12, 2001 (the "Merger"). Each share of Coelacanth capital stock issued and outstanding immediately prior to the effective time of the Merger was converted into the right to receive that number of shares of common stock, par value \$.001 per share, of the Registrant ("Registrant Common Stock") described in the Merger Agreement. In addition, at the effective time of the Merger, each outstanding option to purchase or acquire a share of common stock, par value \$.0001 per share, of Coelacanth ("Coelacanth Common Stock"), under the Coelacanth Corporation 1999 Stock Option Plan (the "Coelacanth Plan") was converted into an option to purchase that number of shares of Registrant Common Stock that the option holder would have been entitled to receive pursuant to the Merger Agreement had such option been exercised immediately prior to the effective time of the Merger. No additional awards will be granted under the Coelacanth Plan. Immediately before the Merger, 4,287,857 shares of Coelacanth Common Stock were reserved for issuance and delivery under the Coelacanth Plan, and immediately thereafter 122,650 shares of Registrant Common Stock were so reserved.

Pursuant to the instructions to Part I of Form S-8, the prospectus which is to be used for the Registrant's issuance of the shares of Registrant Common Stock subject to the Coelacanth Plan is omitted from this Registration Statement.

PART II

INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

ITEM 3. INCORPORATION OF DOCUMENTS BY REFERENCE.

The following documents filed with the Securities and Exchange Commission (the "Commission") by the Registrant are incorporated by reference in this Registration Statement:

- (a) The Registrant's Annual Report on Form 10-K filed on March 15, 2001 for the fiscal year ended December 31, 2000;
- (b) The Registrant's Current Report on Form 8-K filed on June 13, 2001 announcing the Merger Agreement;
- (c) The Registrant's Quarterly Report on Form 10-Q filed on May 14, 2001 for the fiscal quarter ended March 31, 2001; and
- (d) The description of the Registrant Common Stock contained in the Registrant's Registration Statement on Form 8-A filed with the Commission on March 27, 2000 pursuant to Section 12 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), including any amendments and reports filed for the purpose of updating such description.

All documents subsequently filed by the Registrant pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Exchange Act, prior to the filing of a post-effective amendment which indicates that all shares of Common Stock offered hereby have been sold or which deregisters all shares of Common Stock then remaining unsold, shall be deemed to be incorporated by reference herein and to be part hereof from the date of the filing of such documents. Any statement contained in a document incorporated or deemed to be incorporated by reference herein shall be deemed to be modified or superseded for purposes of this Registration Statement to the extent that a statement contained herein or in any other subsequently filed document which also is or is deemed to be incorporated by reference herein modifies or supersedes such statement. Any statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this Registration Statement.

ITEM 4. DESCRIPTION OF SECURITIES.

The information required by Item 4 is not applicable to this registration statement because the class of securities to be offered is registered under Section 12 of the Exchange Act.

ITEM 5. INTERESTS OF NAMED EXPERTS AND COUNSEL.

The information required by Item 5 is not applicable to this registration statement.

ITEM 6. INDEMNIFICATION OF DIRECTORS AND OFFICERS.

Section 145 of the Delaware General Corporation Law ("DGCL") provides that a corporation may indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding whether civil, criminal, administrative or investigative (other than an action by or in the right of the corporation by reason of the fact that he is or was a director, officer, employee or agent of the corporation, or is or was serving at the request of the corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise, against expenses (including attorneys' fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by him in connection with such action, suit or proceeding if he acted in good faith and in a manner he reasonably believed to be in or not opposed to the best interests of the corporation, and, with respect to any criminal action or proceeding, had no reasonable cause to believe his conduct was unlawful. Section 145 further provides that a corporation similarly may indemnify any such person serving in any such capacity who was or is a party or is threatened to be made a party to any threatened, pending or completed action or suit by or in the right of the corporation to procure a judgment in its favor by reason of the fact that he is or was a director, officer, employee or agent of the corporation or is or was serving at the request of the corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise, against expenses (including attorneys' fees) actually and reasonably incurred in connection with the defense or settlement of such action or suit if he acted in good faith and in a manner he reasonably believed to be in or not opposed to the best interests of the corporation and except that no indemnification shall be made in respect of any claim, issue or matter as to which such person shall have been adjudged to be liable to the corporation unless and only to the extent that the Delaware Court of Chancery or such other court in which such action or suit was brought shall determine upon application that, despite the adjudication of liability but in view of all of the circumstances of the case, such person is fairly and reasonably entitled to indemnity for such expenses which the Delaware Court of Chancery or such other court shall deem proper.

The Registrant's certificate of incorporation and bylaws provide that indemnification shall be to the fullest extent permitted by the DGCL for all current or former directors or officers. As permitted by the DGCL, the certificate of incorporation provides that directors of the Registrant shall have no personal liability to the Registrant or its stockholders for monetary damages for breach of fiduciary duty as a director, except (1) for any breach of the director's duty of loyalty to the Registrant or its stockholders, (2) for acts or omissions not in good faith or which involve intentional misconduct or knowing violation of law, (3) under Section 174 of the DGCL or (4) for any transaction from which a director derived an improper personal benefit.

The Registrant has entered into indemnification agreements with each of its officers and directors. Each such agreement provides that each party to the agreement shall have no personal liability to the Registrant or its stockholders for monetary damages for breach of fiduciary duty as a director, except (1) for any breach of the director's duty of loyalty to the Registrant or its stockholders, (2) for acts or omissions not in good faith or which involve intentional misconduct or knowing violation of law, (3) under Section 174 of the DGCL or (4) for any transaction from which a director derived an improper personal benefit. Each such agreement also provides an indemnification to each party to the agreement against damages and expenses arising from claims against such party for a breach of such party's fiduciary duty to the Registrant or its stockholders.

ITEM 7. EXEMPTION FROM REGISTRATION CLAIMED.

The information required by Item 7 is not applicable to this registration statement.

ITEM 8. EXHIBITS.

EXHIBIT NUMBER	DESCRIPTION
4.1+	Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 to the Registrant's Registration Statement on Form S-1 (No. 333-96469), originally filed on February 9, 2000 (the "Registration Statement")).
4.2+	Restated Bylaws (incorporated by reference to Exhibit 3.2 to the Registration Statement).
5.1*	Opinion of Vinson & Elkins L.L.P.
23.1*	Consent of Vinson & Elkins L.L.P. (included in Exhibit 5.1).
23.2*	Consent of Arthur Andersen LLP.
24.1*	Power of Attorney (set forth on the signature page contained in Part II of this Registration Statement).
99.1*	Coelacanth Corporation 1999 Stock Option Plan.

+ Incorporated herein by reference.

* Filed herewith.

ITEM 9. UNDERTAKINGS.

(a) The undersigned Registrant hereby undertakes:

(1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

(i) To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933, as amended (the "Securities Act");

(ii) To reflect in the prospectus any facts or events arising after the effective date of this registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in this registration statement;

(iii) To include any material information with respect to the plan of distribution not previously disclosed in this registration statement or any material change to such information in this registration statement;

Provided, however, that paragraphs (a)(1)(i) and (a)(1)(ii) above do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in periodic reports filed by the Registrant pursuant to Section 13 or Section 15(d) of the Exchange Act that are incorporated by reference in the registration statement.

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

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

(b) The undersigned Registrant hereby undertakes that, for purposes of determining any liability under the Securities Act, each filing of the Registrant's annual report pursuant to Section 13(a) or 15(d) of the Exchange Act (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Exchange Act) that is incorporated by reference in this Registration Statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

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

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, as amended, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in The Woodlands, in the State of Texas, on July 31, 2001.

LEXICON GENETICS INCORPORATED

By: /s/ ARTHUR T. SANDS

 Arthur T. Sands, M.D., Ph.D.
 President and Chief Executive Officer

POWER OF ATTORNEY

The person whose signature appears below appoints Arthur T. Sands, M.D., Ph.D., Julia P. Gregory and Jeffrey L. Wade, and each of them, any of whom may act without the joinder of the other, as his true and lawful attorneys-in-fact and agents with full power of substitution and resubstitution, for him and in his name, place and stead, in any and all capacities, to sign any and all amendments (including post-effective amendments) to this Registration Statement and to file the same, with all exhibits thereto, and all other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents full power and authority to do and perform each and every act and thing requisite and necessary to be done, as fully to all intents and purposes as he might or would do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them or their or his substitute and substitutes, may lawfully do or cause to be done by virtue hereof.

PURSUANT TO THE REQUIREMENTS OF THE SECURITIES ACT OF 1933, AS AMENDED, THIS REGISTRATION STATEMENT HAS BEEN SIGNED BELOW BY THE FOLLOWING PERSONS IN THE CAPACITIES AND ON THE DATES INDICATED BELOW.

SIGNATURE -----	TITLE -----	DATE -----
/s/ ARTHUR T. SANDS ----- Arthur T. Sands, M.D., Ph.D.	President, Chief Executive Officer and Director (principal executive officer)	July 31, 2001
/s/ JULIA P. GREGORY ----- Julia P. Gregory	Executive Vice President and Chief Financial Officer (principal financial and accounting officer)	July 31, 2001
/s/ SAM L. BARKER ----- Sam L. Barker, Ph.D.	Director	July 31, 2001

SIGNATURE -----	TITLE -----	DATE -----
/s/ PATRICIA M. CLOHERTY ----- Patricia M. Cloherty	Director	July 31, 2001
/s/ ROBERT J. LEFKOWITZ ----- Robert J. Lefkowitz, M.D.	Director	July 31, 2001
/s/ WILLIAM A. MCMINN ----- William A. McMinn	Director	July 31, 2001

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99.1*	Coelacanth Corporation 1999 Stock Option Plan.

- -----
+ Incorporated herein by reference.

* Filed herewith.

July 31, 2001

Board of Directors
Lexicon Genetics Incorporated
4000 Research Forest Drive
The Woodlands, Texas 77381

Ladies and Gentlemen:

We have acted as counsel to Lexicon Genetics Incorporated (the "Company") in connection with the preparation of the Company's Registration Statement on Form S-8 (the "Registration Statement") to be filed with the Securities and Exchange Commission under the Securities Act of 1933, as amended (the "Securities Act"), with respect to 122,650 shares (the "Shares") of Common Stock issuable under the Coelacanth Corporation 1999 Stock Option Plan (the "Plan").

We have examined such corporate records, other documents and such questions of law as we considered necessary or appropriate for purposes of this opinion and, upon the basis of such examination, advise you that in our opinion all necessary corporate proceedings by the Company have been duly taken to authorize the issuance of the Shares pursuant to the Plan and that the Shares being registered pursuant to the Registration Statement, when issued and paid for under the Plan in accordance with the terms of the Plan will be duly authorized, validly issued, fully paid and non-assessable.

We hereby consent to the filing of this opinion as an exhibit to the Registration Statement. This consent, is not to be construed as an admission that we are a person whose consent is required to be filed with the Registration Statement under the provisions of the Securities Act.

Very truly yours,

/s/ VINSON & ELKINS L.L.P.

VINSON & ELKINS L.L.P.

CONSENT OF INDEPENDENT PUBLIC ACCOUNTANTS

As independent public accountants, we hereby consent to the incorporation by reference in this registration statement of our report dated February 27, 2001 included in the Registrant's Form 10-K for the fiscal year ended December 31, 2000, originally filed with the Securities and Exchange Commission on March 15, 2001, and to all references to our Firm included in this registration statement.

ARTHUR ANDERSEN LLP

/s/ ARTHUR ANDERSEN LLP

Houston, Texas
July 30, 2001

COELACANTH CHEMICAL CORPORATION
1999 STOCK OPTION/STOCK ISSUANCE PLAN

ARTICLE ONE

GENERAL PROVISIONS

I. PURPOSE OF THE PLAN

This 1999 Stock Option/Stock Issuance Plan is intended to promote the interests of Coelacanth Chemical Corporation, a Delaware corporation, by providing eligible persons in the Corporation's employ or service with the opportunity to acquire a proprietary interest, or otherwise increase their proprietary interest, in the Corporation as an incentive for them to continue in such employ or service.

Capitalized terms herein shall have the meanings assigned to such terms in the attached Appendix.

II. STRUCTURE OF THE PLAN

A. The Plan shall be divided into two (2) separate equity programs:

(i) the Option Grant Program under which eligible persons may, at the discretion of the Plan Administrator, be granted options to purchase shares of Common Stock, and

(ii) the Stock Issuance Program under which eligible persons may, at the discretion of the Plan Administrator, be issued shares of Common Stock directly, either through the immediate purchase of such shares or as a bonus for services rendered the Corporation (or any Parent or Subsidiary).

B. The provisions of Articles One and Four shall apply to both equity programs under the Plan and shall accordingly govern the interests of all persons under the Plan.

III. ADMINISTRATION OF THE PLAN

A. The Plan shall be administered by the Board. However, any or all administrative functions otherwise exercisable by the Board may be delegated to the Committee. Members of the Committee shall serve for such period of time as the Board may determine and shall be subject to removal by the Board at any time. The Board may also at any time terminate the functions of the Committee and reassume all powers and authority previously delegated to the Committee.

B. The Plan Administrator shall have full power and authority (subject to the provisions of the Plan) to establish such rules and regulations as it may deem appropriate for proper administration of the Plan and to make such determinations under, and issue such interpretations of, the Plan and any outstanding options or stock issuances thereunder as it may deem necessary or advisable. Decisions of the Plan Administrator shall be final and binding on all parties who have an interest in the Plan or any option grant or stock issuance thereunder.

IV. ELIGIBILITY

The persons eligible to participate in the Plan are as follows:

(i) Employees;

(ii) non-employee members of the Board or the non-employee members of the board of directors of any Parent or Subsidiary; and

(iii) consultants and other independent advisors who provide services to the Corporation (or any Parent or Subsidiary).

B. The Plan Administrator shall have full authority to determine, (i) with respect to the grants made under the Option Grant Program, which eligible persons are to receive such grants, the time or times when those grants are to be made, the number of shares to be covered by each such grant, the status of the granted option as either an Incentive Option or a Non-Statutory Option, the time or times when each option is to become exercisable, the vesting schedule (if any) applicable to the option shares and the maximum term for which the option is to remain outstanding, and (ii) with respect to stock issuances made under the Stock Issuance Program, which eligible persons are to receive such issuances, the time or times when those issuances are to be made, the number of shares to be issued to each Participant, the vesting schedule (if any) applicable to the issued shares and the consideration to be paid by the Participant for such shares.

C. The Plan Administrator shall have the absolute discretion either to grant options in accordance with the Option Grant Program or to effect stock issuances in accordance with the Stock Issuance Program.

V. STOCK SUBJECT TO THE PLAN

A. The stock issuable under the Plan shall be shares of authorized but unissued or reacquired Common Stock. The maximum number of shares of Common Stock which may be issued over the term of the Plan shall not exceed five million two hundred fifty-one thousand six hundred seventy-two (5,251,672) shares.

B. Shares of Common Stock subject to outstanding options shall be available for subsequent issuance under the Plan to the extent (i) the options expire or terminate for any reason prior to exercise in full or (ii) the options are cancelled in accordance with the cancellation-regrant provisions of Article Two. Unvested shares issued under the Plan and subsequently repurchased by the Corporation, at the option exercise or direct issue price paid per share, pursuant to the Corporation's repurchase rights under the Plan shall be added back to the number of shares of Common Stock reserved for issuance under the Plan and shall accordingly be available for reissuance through one or more subsequent option grants or direct stock issuances under the Plan.

C. Should any change be made to the Common Stock by reason of any stocksplit, stock dividend, recapitalization, combination of shares, exchange of shares or other change affecting the outstanding Common Stock as a class without the Corporation's receipt of consideration, appropriate adjustments shall be made to (i) the maximum number and/or class of securities issuable under the Plan and (ii) the number and/or class of securities and the exercise price per share in effect under each outstanding option in order to prevent the dilution or enlargement of benefits thereunder. The adjustments determined by the Plan Administrator shall

be final, binding and conclusive. In no event shall any such adjustments be made in connection with the conversion of one or more outstanding shares of the Corporation's preferred stock into shares of Common Stock.

ARTICLE TWO

OPTION GRANT PROGRAM

I. OPTION TERMS

Each option shall be evidenced by one or more documents in the form approved by the Plan Administrator; provided, however, that each such document shall comply with the terms specified below. Each document evidencing an Incentive Option shall, in addition, be subject to the provisions of the Plan applicable to such options.

A. EXERCISE PRICE.

1. The exercise price per share shall be fixed by the Plan Administrator in accordance with the following provisions:

(i) The exercise price per share shall not be less than eighty-five percent (85%) of the Fair Market Value per share of Common Stock on the option grant date.

(ii) If the person to whom the option is granted is a 10% Stockholder, then the exercise price per share shall not be less than one hundred ten percent (110%) of the Fair Market Value per share of Common Stock on the option grant date.

2. The exercise price shall become immediately due upon exercise of the option and shall, subject to the provisions of Section I of Article Four and the documents evidencing the option, be payable in cash or check made payable to the Corporation. Should the Common Stock be registered under Section 12 of the 1934 Act at the time the option is exercised, then the exercise price may also be paid as follows:

(i) in shares of Common Stock held for the requisite period necessary to avoid a charge to the Corporation's earnings for financial reporting purposes and valued at Fair Market Value on the Exercise Date, or

(ii) to the extent the option is exercised for vested shares, through a special sale and remittance procedure pursuant to which the Optionee shall concurrently provide irrevocable instructions (A) to a Corporation designated brokerage firm to effect the immediate sale of the purchased shares and remit to the Corporation, out of the sale proceeds available on the settlement date, sufficient funds to cover the aggregate exercise price payable for the purchased shares plus all applicable Federal, state and local income and employment taxes required to be withheld by the Corporation by reason of such exercise and (B) to the Corporation to deliver the certificates for the purchased shares directly to such brokerage firm in order to complete the sale.

Except to the extent such sale and remittance procedure is utilized, payment of the exercise price for the purchased shares must be made on the Exercise Date.

B. EXERCISE AND TERM OF OPTIONS. Each option shall be exercisable at such time or times, during such period and for such number of shares as shall be determined by the Plan Administrator and set forth in the documents evidencing the option grant. However, no option shall have a term in excess of ten (10) years measured from the option grant date.

C. EFFECT OF TERMINATION OF SERVICE.

1. The following provisions shall govern the exercise of any options held by the Optionee at the time of cessation of Service or death:

(i) Should the Optionee cease to remain in Service for any reason other than death. Disability or Misconduct, then the Optionee shall have a period of three (3) months following the date of such cessation of Service during which to exercise each outstanding option held by such Optionee.

(ii) Should Optionee's Service terminate by reason of Disability, then the Optionee shall have a period of twelve (12) months following the date of such cessation of Service during which to exercise each outstanding option held by such Optionee.

(iii) If the Optionee dies while holding an outstanding option, then the personal representative of his or her estate or the person or persons to whom the option is transferred pursuant to the Optionee's will or the laws of inheritance shall have a twelve (12)-month period following the date of the Optionee's death to exercise such option.

(iv) Under no circumstances, however, shall any such option be exercisable after the specified expiration of the option term.

(v) During the applicable post-Service exercise period, the option may not be exercised in the aggregate for more than the number of vested shares for which the option is exercisable on the date of the Optionee's cessation of Service. Upon the expiration of the applicable exercise period or (if earlier) upon the expiration of the option term, the option shall terminate and cease to be outstanding for any vested shares for which the option has not been exercised. However, the option shall, immediately upon the Optionee's cessation of Service, terminate and cease to be outstanding with respect to any and all option shares for which the option is not otherwise at the time exercisable or in which the Optionee is not otherwise at that time vested.

(vi) Should Optionee's Service be terminated for Misconduct, then all outstanding options held by the Optionee shall terminate immediately and cease to remain outstanding.

2. The Plan Administrator shall have the discretion, exercisable either at the time an option is granted or at any time while the option remains outstanding, to:

(i) extend the period of time for which the option is to remain exercisable following Optionee's cessation of Service or death from the limited period otherwise in effect for that option to such greater period of time as the Plan Administrator shall deem appropriate, but in no event beyond the expiration of the option term, and/or

(ii) permit the option to be exercised, during the applicable post-Service exercise period, not only with respect to the number of vested shares of Common Stock

for which such option is exercisable at the time of the Optionee's cessation of Service but also with respect to one or more additional installments in which the Optionee would have vested under the option had the Optionee continued in Service.

D. STOCKHOLDER RIGHTS. The holder of an option shall have no stockholder rights with respect to the shares subject to the option until such person shall have exercised the option, paid the exercise price and become the recordholder of the purchased shares.

E. UNVESTED SHARES. The Plan Administrator shall have the discretion to grant options which are exercisable for unvested shares of Common Stock. Should the Optionee cease Service while holding such unvested shares, the Corporation shall have the right to repurchase, at the exercise price paid per share, any or all of those unvested shares. The terms upon which such repurchase right shall be exercisable (including the period and procedure for exercise and the appropriate vesting schedule for the purchased shares) shall be established by the Plan Administrator and set forth in the document evidencing such repurchase right. The Plan Administrator may not impose a vesting schedule upon any option grant or the shares of Common Stock subject to that option which is more restrictive than twenty percent (20%) per year vesting, with the initial vesting to occur not later than one (1) year after the option grant date. However, such limitation shall not be applicable to any option grants made to individuals who are officers of the Corporation, non-employee Board members or independent consultants.

F. FIRST REFUSAL RIGHTS. Until such time as the Common Stock is first registered under Section 12 of the 1934 Act, the Corporation shall have the right of first refusal with respect to any proposed disposition by the Optionee (or any successor in interest) of any shares of Common Stock issued under the Plan. Such right of first refusal shall be exercisable in accordance with the terms established by the Plan Administrator and set forth in the document evidencing such right.

G. LIMITED TRANSFERABILITY OF OPTIONS. During the lifetime of the Optionee, the option shall be exercisable only by the Optionee and shall not be assignable or transferable other than by will or by the laws of descent and distribution following the Optionee's death.

II. INCENTIVE OPTIONS

The terms specified below shall be applicable to all Incentive Options. Except as modified by the provisions of this Section II, all the provisions of Articles One, Two and Four shall be applicable to Incentive Options. Options which are specifically designated as Non- Statutory Options shall not be subject to the terms of this Section II.

A. ELIGIBILITY. Incentive Options may only be granted to Employees.

B. EXERCISE PRICE. The exercise price per share shall not be less than one hundred percent (100%) of the Fair Market Value per share of Common Stock on the option grant date.

C. DOLLAR LIMITATION. The aggregate Fair Market Value of the shares of Common Stock (determined as of the respective date or dates of grant) for which one or more options granted to any Employee under the Plan (or any other option plan of the Corporation or any Parent or Subsidiary) may for the first time become exercisable as Incentive Options during any one (1) calendar year shall not exceed the sum of One Hundred Thousand Dollars (\$100,000). To the extent the Employee holds two (2) or more such options which become exercisable for the

first time in the same calendar year, the foregoing limitation on the exercisability of such options as Incentive Options shall be applied on the basis of the order in which such options are granted.

D. 10% STOCKHOLDER. If any Employee to whom an Incentive Option is granted is a 10% Stockholder, then the option term shall not exceed five (5) years measured from the option grant date.

III. CORPORATE TRANSACTION

A. The shares subject to each option outstanding under the Plan at the time of a Corporate Transaction shall automatically vest in full so that each such option shall, immediately prior to the effective date of the Corporate Transaction, become fully exercisable for all of the shares of Common Stock at the time subject to that option and may be exercised for any or all of those shares as fully-vested shares of Common Stock. However, the shares subject to an outstanding option shall not vest on such an accelerated basis if and to the extent: (i) such option is assumed by the successor corporation (or parent thereof) in the Corporate Transaction and any repurchase rights of the Corporation with respect to the unvested option shares are concurrently to be assigned to such successor corporation (or parent thereof) or (ii) such option is to be replaced with a cash incentive program of the successor corporation which preserves the spread existing on the unvested option shares at the time of the Corporate Transaction and provides for subsequent payout in accordance with the same vesting schedule applicable to those unvested option shares or (iii) the acceleration of such option is subject to other limitations imposed by the Plan Administrator at the time of the option grant.

B. All outstanding repurchase rights shall also terminate automatically, and the shares of Common Stock subject to those terminated rights shall immediately vest in full, in the event of any Corporate Transaction, except to the extent: (i) those repurchase rights are assigned to the successor corporation (or parent thereof) in connection with such Corporate Transaction or (ii) such accelerated vesting is precluded by other limitations imposed by the Plan Administrator at the time the repurchase right is issued.

C. Immediately following the consummation of the Corporate Transaction, all outstanding options shall terminate and cease to be outstanding, except to the extent assumed by the successor corporation (or parent thereof).

D. Each option which is assumed in connection with a Corporate Transaction shall be appropriately adjusted, immediately after such Corporate Transaction, to apply to the number and class of securities which would have been issuable to the Optionee in consummation of such Corporate Transaction, had the option been exercised immediately prior to such Corporate Transaction. Appropriate adjustments shall also be made to (i) the number and class of securities available for issuance under the Plan following the consummation of such Corporate Transaction and (ii) the exercise price payable per share under each outstanding option, provided the aggregate exercise price payable for such securities shall remain the same.

E. The Plan Administrator shall have the discretion, exercisable either at the time the option is granted or at any time while the option remains outstanding, to structure one or more options so that those options shall automatically accelerate and vest in full (and any repurchase rights of the Corporation with respect to the unvested shares subject to those options shall immediately terminate) upon the occurrence of a Corporate Transaction, whether or not those options are to be assumed in the Corporate Transaction.

F. The Plan Administrator shall also have full power and authority, exercisable either at the time the option is granted or at any time while the option remains outstanding, to structure such option so that the shares subject to that option will automatically vest on an accelerated basis should the Optionee's Service terminate by reason of an Involuntary Termination within a designated period (not to exceed eighteen (18) months) following the effective date of any Corporate Transaction in which the option is assumed and the repurchase rights applicable to those shares do not otherwise terminate. Any option so accelerated shall remain exercisable for the fully-vested option shares until the expiration or sooner termination of the option term. In addition, the Plan Administrator may provide that one or more of the Corporation's outstanding repurchase rights with respect to shares held by the Optionee at the time of such Involuntary Termination shall immediately terminate on an accelerated basis, and the shares subject to those terminated rights shall accordingly vest at that time.

G. The portion of any Incentive Option accelerated in connection with a Corporate Transaction shall remain exercisable as an Incentive Option only to the extent the applicable One Hundred Thousand Dollar limitation is not exceeded. To the extent such dollar limitation is exceeded, the accelerated portion of such option shall be exercisable as a Non-Statutory Option under the Federal tax laws.

H. The grant of options under the Plan shall in no way affect the right of the Corporation to adjust, reclassify, reorganize or otherwise change its capital or business structure or to merge, consolidate, dissolve, liquidate or sell or transfer all or any part of its business or assets.

IV. CANCELLATION AND REGRANT OF OPTIONS

The Plan Administrator shall have the authority to effect, at any time and from time to time, with the consent of the affected option holders, the cancellation of any or all outstanding options under the Plan and to grant in substitution therefore new options covering the same or different number of shares of Common Stock but with an exercise price per share based on the Fair Market Value per share of Common Stock on the new option grant date.

ARTICLE THREE

STOCK ISSUANCE PROGRAM

I. STOCK ISSUANCE TERMS

Shares of Common Stock may be issued under the Stock Issuance Program through direct and immediate issuances without any intervening option grants. Each such stock issuance shall be evidenced by a Stock Issuance Agreement which complies with the terms specified below.

A. PURCHASE PRICE.

1. The purchase price per share shall be fixed by the Plan Administrator but shall not be less than eighty-five percent (85%) of the Fair Market Value per share of Common Stock on the issue date. However, the purchase price per share of Common Stock issued to a 10%

Stockholder shall not be less than one hundred and ten percent (110%) of such Fair Market Value.

2. Subject to the provisions of Section I of Article Four, shares of Common Stock may be issued under the Stock Issuance Program for any of the following items of consideration which the Plan Administrator may deem appropriate in each individual instance:

(i) cash or check made payable to the Corporation, or

(ii) past services rendered to the Corporation (or any Parent or Subsidiary).

B. VESTING PROVISIONS.

1. Shares of Common Stock issued under the Stock Issuance Program may, in the discretion of the Plan Administrator, be fully and immediately vested upon issuance or may vest in one or more installments over the Participant's period of Service or upon attainment of specified performance objectives. However, the Plan Administrator may not impose a vesting schedule upon any stock issuance affected under the Stock Issuance Program which is more restrictive than twenty percent (20%) per year vesting, with initial vesting to occur not later than one (1) year after the issuance date. Such limitation shall not apply to any Common Stock issuances made to the officers of the Corporation, non-employee Board members or independent consultants.

2. Any new, substituted or additional securities or other property (including money paid other than as a regular cash dividend) which the Participant may have the right to receive with respect to the Participant's unvested shares of Common Stock by reason of any stock dividend, stock split, recapitalization, combination of shares, exchange of shares or other change affecting the outstanding Common Stock as a class without the Corporation's receipt of consideration shall be issued subject to (i) the same vesting requirements applicable to the Participant's unvested shares of Common Stock and (ii) such escrow arrangements as the Plan Administrator shall deem appropriate.

3. The Participant shall have full stockholder rights with respect to any shares of Common Stock issued to the Participant under the Stock Issuance Program, whether or not the Participant's interest in those shares is vested. Accordingly, the Participant shall have the right to vote such shares and to receive any regular cash dividends paid on such shares.

4. Should the Participant cease to remain in Service while holding one or more unvested shares of Common Stock issued under the Stock Issuance Program or should the performance objectives not be attained with respect to one or more such unvested shares of Common Stock, then those shares shall be immediately surrendered to the Corporation for cancellation, and the Participant shall have no further stockholder rights with respect to those shares. To the extent the surrendered shares were previously issued to the Participant for consideration paid in cash or cash equivalent (including the Participant's purchase-money indebtedness), the Corporation shall repay to the Participant the cash consideration paid for the surrendered shares and shall cancel the unpaid principal balance of any outstanding purchase-money note of the Participant attributable to such surrendered shares.

5. The Plan Administrator may in its discretion waive the surrender and cancellation of one or more unvested shares of Common Stock (or other assets attributable thereto) which would otherwise occur upon the non-completion of the vesting schedule applicable

to those shares. Such waiver shall result in the immediate vesting of the Participant's interest in the shares of Common Stock as to which the waiver applies. Such waiver may be effected at any time, whether before or after the Participant's cessation of Service or the attainment or non-attainment of the applicable performance objectives.

6. FIRST REFUSAL RIGHTS. Until such time as the Common Stock is first registered under Section 12 of the 1934 Act, the Corporation shall have the right of first refusal with respect to any proposed disposition by the Participant (or any successor in interest) of any shares of Common Stock issued under the Stock Issuance Program. Such right of first refusal shall be exercisable in accordance with the terms established by the Plan Administrator and set forth in the document evidencing such right.

II. CORPORATE TRANSACTION

A. Upon the occurrence of a Corporate Transaction, all outstanding repurchase rights under the Stock Issuance Program shall terminate automatically, and the shares of Common Stock subject to those terminated rights shall immediately vest in full, except to the extent: (i) those repurchase rights are assigned to the successor corporation (or parent thereof) in connection with such Corporate Transaction or (ii) such accelerated vesting is precluded by other limitations imposed by the Plan Administrator at the time the repurchase right is issued.

B. The Plan Administrator shall have the discretionary authority, exercisable either at the time the unvested shares are issued or any time while the Corporation's repurchase rights with respect to those shares remain outstanding, to provide that those rights shall automatically terminate on an accelerated basis, and the shares of Common Stock subject to those terminated rights shall immediately vest, in the event the Participant's Service should subsequently terminate by reason of an Involuntary Termination within a designated period (not to exceed eighteen (18) months) following the effective date of any Corporate Transaction in which those repurchase rights are assigned to the successor corporation (or parent thereof).

III. SHARE ESCROW/LEGENDS

Unvested shares may, in the Plan Administrator's discretion, be held in escrow by the Corporation until the Participant's interest in such shares vests or may be issued directly to the Participant with restrictive legends on the certificates evidencing those unvested shares.

ARTICLE FOUR

MISCELLANEOUS

I. FINANCING

The Plan Administrator may permit any Optionee or Participant to pay the option exercise price under the Option Grant Program or the purchase price for shares issued under the Stock Issuance Program by delivering a full-recourse, interest bearing promissory note payable in one or more installments and secured by the purchased shares. The terms of any such promissory note (including the interest rate and the terms of repayment) shall be established by the Plan Administrator in its sole discretion. In no event may the maximum credit available to the Optionee or Participant exceed the sum of (i) the aggregate option exercise price or purchase price payable for the purchased shares (less the par value of those shares) plus (ii) any Federal,

state and local income and employment tax liability incurred by the Optionee or the Participant in connection with the option exercise or share purchase.

II. EFFECTIVE DATE AND TERM OF PLAN

A. The Plan shall become effective when adopted by the Board, but no option granted under the Plan may be exercised, and no shares shall be issued under the Plan, until the Plan is approved by the Corporation's stockholders. If such stockholder approval is not obtained within twelve (12) months after the date of the Board's adoption of the Plan, then all options previously granted under the Plan shall terminate and cease to be outstanding, and no further options shall be granted and no shares shall be issued under the Plan. Subject to such limitation, the Plan Administrator may grant options and issue shares under the Plan at any time after the effective date of the Plan and before the date fixed herein for termination of the Plan.

B. The Plan shall terminate upon the earliest of (i) the expiration of the ten (10)-year period measured from the date the Plan is adopted by the Board, (ii) the date on which all shares available for issuance under the Plan shall have been issued as vested shares or (iii) the termination of all outstanding options in connection with a Corporate Transaction. All options and unvested stock issuances outstanding at the time of a clause (i) termination event shall continue to have full force and effect in accordance with the provisions of the documents evidencing those options or issuances.

III. AMENDMENT OF THE PLAN

A. The Board shall have complete and exclusive power and authority to amend or modify the Plan in any or all respects. However, no such amendment or modification shall adversely affect the rights and obligations with respect to options or unvested stock issuances at the time outstanding under the Plan unless the Optionee or the Participant consents to such amendment or modification. In addition, certain amendments may require stockholder approval pursuant to applicable laws and regulations.

B. Options may be granted under the Option Grant Program and shares may be issued under the Stock Issuance Program which are in each instance in excess of the number of shares of Common Stock then available for issuance under the Plan, provided any excess shares actually issued under those programs shall be held in escrow until there is obtained stockholder approval of an amendment sufficiently increasing the number of shares of Common Stock available for issuance under the Plan. If such stockholder approval is not obtained within twelve (12) months after the date the first such excess grants or issuances are made, then (i) any unexercised options granted on the basis of such excess shares shall terminate and cease to be outstanding and (ii) the Corporation shall promptly refund to the Optionees and the Participants the exercise or purchase price paid for any excess shares issued under the Plan and held in escrow, together with interest (at the applicable Short Term Federal Rate) for the period the shares were held in escrow, and such shares shall thereupon be automatically cancelled and cease to be outstanding.

IV. USE OF PROCEEDS

Any cash proceeds received by the Corporation from the sale of shares of Common Stock under the Plan shall be used for general corporate purposes.

V. WITHHOLDING

The Corporation's obligation to deliver shares of Common Stock upon the exercise of any options granted under the Plan or upon the issuance or vesting of any shares issued under the Plan shall be subject to the satisfaction of all applicable Federal, state and local income and employment tax withholding requirements.

VI. REGULATORY APPROVALS

The implementation of the Plan, the granting of any options under the Plan and the issuance of any shares of Common Stock (i) upon the exercise of any option or (ii) under the Stock Issuance Program shall be subject to the Corporation's procurement of all approvals and permits required by regulatory authorities having jurisdiction over the Plan, the options granted under it and the shares of Common Stock issued pursuant to it.

VII. NO EMPLOYMENT OR SERVICE RIGHTS

Nothing in the Plan shall confer upon the Optionee or the Participant any right to continue in Service for any period of specific duration or interfere with or otherwise restrict in any way the rights of the Corporation (or any Parent or Subsidiary employing or retaining such person) or of the Optionee or the Participant, which rights are hereby expressly reserved by each, to terminate such person's Service at any time for any reason, with or without cause.

VIII. FINANCIAL REPORTS

The Corporation shall deliver a balance sheet and an income statement at least annually to each individual holding an outstanding option under the Plan, unless such individual is a key Employee whose duties in connection with the Corporation (or any Parent or Subsidiary) assure such individual access to equivalent information.

APPENDIX

The following definitions shall be in effect under the Plan:

A. BOARD shall mean the Corporation's Board of Directors.

B. CODE shall mean the Internal Revenue Code of 1986, as amended

C. COMMITTEE shall mean a committee of two (2) or more Board members appointed by the Board to exercise one or more administrative functions under the Plan.

D. COMMON STOCK shall mean the Corporation's common stock.

E. CORPORATE TRANSACTION shall mean either of the following stockholder-approved transactions to which the Corporation is a party:

(i) a merger or consolidation in which securities possessing more than fifty percent (50%) of the total combined voting power of the Corporation's outstanding securities are transferred to a person or persons different from the persons holding those securities immediately prior to such transaction, or

(ii) the sale, transfer or other disposition of all or substantially all of the Corporation's assets in complete liquidation or dissolution of the Corporation.

F. CORPORATION shall mean Coelacanth Chemical Corporation, a Delaware corporation, and any successor corporation to all or substantially all of the assets or voting stock of Coelacanth Chemical Corporation which shall by appropriate action adopt the Plan.

G. DISABILITY shall mean the inability of the Optionee or the Participant to engage in any substantial gainful activity by reason of any medically determinable physical or mental impairment and shall be determined by the Plan Administrator on the basis of such medical evidence as the Plan Administrator deems warranted under the circumstances.

H. EMPLOYEE shall mean an individual who is in the employ of the Corporation (or any Parent or Subsidiary), subject to the control and direction of the employer entity as to both the work to be performed and the manner and method of performance.

I. EXERCISE DATE shall mean the date on which the Corporation shall have received written notice of the option exercise.

J. FAIR MARKET VALUE per share of Common Stock on any relevant date shall be determined in accordance with the following provisions:

(i) If the Common Stock is at the time traded on the Nasdaq National Market, then the Fair Market Value shall be the closing selling price per share of Common Stock on the date in question, as such price is reported by the National Association of Securities Dealers on the Nasdaq National Market. If there is no closing selling price for the Common Stock on the date in question, then the Fair Market Value shall be the closing selling price on the last preceding date for which such quotation exists.

(ii) If the Common Stock is at the time listed on any Stock Exchange, then the Fair Market Value shall be the closing selling price per share of Common Stock on the date in question on the Stock Exchange determined by the Plan Administrator to be the primary market for the Common Stock, as such price is officially quoted in the composite tape of transactions on such exchange. If there is no closing selling price for the Common Stock on the date in question, then the Fair Market Value shall be the closing selling price on the last preceding date for which such quotation exists.

(iii) If the Common Stock is at the time neither listed on any Stock Exchange nor traded on the Nasdaq National Market, then the Fair Market Value shall be determined by the Plan Administrator after taking into account such factors as the Plan Administrator shall deem appropriate.

K. INCENTIVE OPTION shall mean an option which satisfies the requirements of Code Section 422.

L. INVOLUNTARY TERMINATION shall mean the termination of the Service of any individual which occurs by reason of:

(i) such individual's involuntary dismissal or discharge by the Corporation for reasons other than Misconduct, or

(ii) such individual's voluntary resignation following (A) a change in his or her position with the Corporation which materially reduces his or her duties and responsibilities or the level of management to which he or she reports, (B) a reduction in his or her level of compensation (including base salary, fringe benefits and target bonuses under any corporate-performance based bonus or incentive programs) by more than fifteen percent (15%) or (C) a relocation of such individual's place of employment by more than fifty (50) miles, provided and only if such change, reduction or relocation is effected without the individual's consent.

M. MISCONDUCT shall mean the commission of any act of fraud, embezzlement or dishonesty by the Optionee or Participant, any unauthorized use or disclosure by such person of confidential information or trade secrets of the Corporation (or any Parent or Subsidiary), or any other intentional misconduct by such person adversely affecting the business or affairs of the Corporation (or any Parent or Subsidiary) in a material manner. The foregoing definition shall not be deemed to be inclusive of all the acts or omissions which the Corporation (or any Parent or Subsidiary) may consider as grounds for the dismissal or discharge of any Optionee, Participant or other person in the Service of the Corporation (or any Parent or Subsidiary).

N. 1934 ACT shall mean the Securities Exchange Act of 1934, as amended.

O. NON-STATUTORY OPTION shall mean an option not intended to satisfy the requirements of Code Section 422.

P. OPTION GRANT PROGRAM shall mean the option grant program in effect under the Plan.

Q. OPTIONEE shall mean any person to whom an option is granted under the Plan.

R. PARENT shall mean any corporation (other than the Corporation) in an unbroken chain of corporations ending with the Corporation, provided each corporation in the unbroken chain (other than the Corporation) owns, at the time of the determination, stock possessing fifty percent (50%) or more of the total combined voting power of all classes of stock in one of the other corporations in such chain.

S. PARTICIPANT shall mean any person who is issued shares of Common Stock under the Stock Issuance Program.

T. PLAN shall mean the Corporation's 1999 Stock Option/Stock Issuance Plan, as set forth in this document.

U. PLAN ADMINISTRATOR shall mean either the Board or the Committee acting in its capacity as administrator of the Plan.

V. SERVICE shall mean the provision of services to the Corporation (or any Parent or Subsidiary) by a person in the capacity of an Employee, a non-employee member of the board of directors or a consultant or independent advisor, except to the extent otherwise specifically provided in the documents evidencing the option grant.

W. STOCK EXCHANGE shall mean either the American Stock Exchange or the New York Stock Exchange.

X. STOCK ISSUANCE AGREEMENT shall mean the agreement entered into by the Corporation and the Participant at the time of issuance of shares of Common Stock under the Stock Issuance Program.

Y. STOCK ISSUANCE PROGRAM shall mean the stock issuance program in effect under the Plan.

Z. SUBSIDIARY shall mean any corporation (other than the Corporation) in an unbroken chain of corporations beginning with the Corporation, provided each corporation (other than the last corporation) in the unbroken chain owns, at the time of the determination, stock possessing fifty percent (50%) or more of the total combined voting power of all classes of stock in one of the other corporations in such chain.

AA. 10% STOCKHOLDER shall mean the owner of stock (as determined under Code Section 424(d)) possessing more than ten percent (10%) of the total combined voting power of all classes of stock of the Corporation (or any Parent or Subsidiary).