

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549**

**POST-EFFECTIVE AMENDMENT NO. 1 TO
FORM S-8**

**REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933**

CELSION CORPORATION
(Exact name of Registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

2834
(Primary Standard Industrial
Classification Code Number)
10220-L Old Columbia Road
Columbia, Maryland 21046-2364
(410) 290-5390

52-1256615
(I.R.S. Employer
Identification No.)

(Address, Including Zip Code, and Telephone Number including Area Code, of Registrant's Principal Executive Offices)

**CELSION CORPORATION 2007 STOCK INCENTIVE PLAN
CELSION CORPORATION 2004 STOCK INCENTIVE PLAN
CELSION CORPORATION 2001 STOCK INCENTIVE PLAN
EMPLOYMENT AGREEMENT BY AND BETWEEN CELSION CORPORATION
AND MICHAEL H. TARDUGNO**
(Full Title of the Plans)

Michael H. Tardugno
President and Chief Executive Officer
10220-L Old Columbia Road
Columbia, Maryland 21046-2364
(410) 290-5390

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

Copies to:
Blake Hornick, Esq.
Seyfarth Shaw LLP
620 Eighth Avenue
New York, New York 10018
(212) 218-3338

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer

Accelerated filer

Non-accelerated filer (Do not check if a smaller reporting company)

Smaller reporting company

CALCULATION OF REGISTRATION FEE

Title of Each Class of Securities to Be Registered	Amount to Be Registered	Proposed Maximum Offering Price Per Share	Proposed Maximum Aggregate Offering Price	Amount of Registration Fee
Common Stock (\$0.01 par value)	(1)	(1)	(1)	(1)

(1) No additional securities are being registered hereby. Pursuant to Rule 429 of the Securities Act of 1933, as amended, this Post-Effective Amendment No. 1 relates to: (a) 1,000,000 shares of common stock of the registrant, \$0.01 par value per share, issuable under the Celsion Corporation 2007 Stock Incentive Plan for which a registration fee of \$176.22 was paid upon filing of Registration Statement No. 333-145680 on Form S-8 with the Securities and Exchange Commission on August 24, 2007; (b) 430,000 shares of common stock of the registrant, par value \$0.01 per share, issuable under the registrant's employment agreement with its president and chief executive officer for which a registration fee of \$111.34 was paid upon filing of Registration Statement No. 333-139784 on Form S-8 with the Securities and Exchange Commission on January 3, 2007; (c) 10,000,000 shares of common stock of the registrant, \$0.01 par value per share, issuable under the Celsion Corporation 2004 Stock Incentive Plan for which a registration fee of \$868.00 was paid upon filing of Registration Statement No. 333-116435 on Form S-8 with the Securities and Exchange Commission on June 14, 2004; and (d) 10,000,000 shares of common stock of the registrant, \$0.01 par value per share, issuable under the Celsion Corporation 2001 Stock Incentive Plan for which a registration fee of \$1,575.00 was paid upon filing of Registration Statement No. 333-67580 on Form S-8 with the Securities and Exchange Commission on August 14, 2001.

EXPLANATORY NOTES

Pursuant to General Instruction E of Form S-8, this Post-Effective Amendment No. 1 incorporates by reference the following Registration Statements on Form S-8 (collectively, the "Incorporated Registration Statements"):

1. Registration Statement No. 333-145680, filed with the Securities and Exchange Commission on August 24, 2007;
2. Registration Statement No. 333-139784, filed with the Securities and Exchange Commission on January 3, 2007;
3. Registration Statement No. 333-116435, filed with the Securities and Exchange Commission on June 14, 2004; and
4. Registration Statement No. 333-67580, filed with the Securities and Exchange Commission on August 14, 2001.

Included on the immediately following pages is a "reoffer prospectus." The reoffer prospectus is filed as part of this Post Effective Amendment No. 1 to Registration Statement on Form S-8 and has been prepared in accordance with the requirements of Part I of Form S-3. Pursuant to Rule 429 of the Securities Act of 1933, as amended (the "Securities Act"), this reoffer prospectus constitutes a combined prospectus that relates to the securities registered under each of the Incorporated Registration Statements. It may be used for reoffers of common stock defined as "control securities" under Instruction C to Form S-8 acquired by "affiliates" (as the term is defined in Rule 405 of the General Rules and Regulations under the Securities Act of 1933, as amended) pursuant to the exercise of stock options and restricted stock granted under the Celsion Corporation 2007 Stock Incentive Plan, the Celsion Corporation 2004 Stock Incentive Plan, the Celsion Corporation 2001 Stock Incentive Plan and the employment agreement by and between Celsion Corporation and its president and chief executive officer.

PROSPECTUS

CELSION CORPORATION

2,223,578 SHARES OF COMMON STOCK

We are an innovative oncology drug development company focused on improving treatment for those suffering with difficult to treat forms of cancer. We are working to develop and commercialize more efficient, effective, targeted chemotherapeutic oncology drugs based on our proprietary heat-activated liposomal technology. Our lead product ThermoDox® is being tested in human clinical trials for the treatment of primary liver cancer and recurrent chest wall breast cancer. We were founded in 1982 and are a Delaware corporation. Our principal executive offices are located at 10220-L Old Columbia Road, Columbia, Maryland 21046. Our telephone number is (410) 290-5390 and our website is <http://www.celsion.com>. The information available on or through our websites is not a part of this prospectus and should not be relied upon.

The persons listed as our selling stockholders in this prospectus are offering and selling up to 2,223,578 shares of our common stock. These shares of our common stock have been, or will be issued to such selling stockholders upon their exercise of options, or the removal of restrictions on restricted common stock, now or hereafter granted under our 2001 Stock Incentive Plan, 2004 Stock Incentive Plan or 2007 Stock Incentive Plan, or pursuant to our employment agreement with our president and chief executive officer. All net proceeds from the sale of the shares of our common stock offered by this prospectus will go to the selling stockholders. We will not receive any proceeds from such sales.

The selling stockholders may offer their shares of common stock through public or private transactions, in the over-the-counter markets or on any exchanges on which our common stock is traded at the time of sale, at prevailing market prices or at privately negotiated prices. The selling stockholders may engage brokers or dealers who may receive commissions or discounts from the selling stockholders. We will pay substantially all of the expenses incident to the registration of such shares, except for selling commissions.

Our common stock is listed on The NASDAQ Capital Market under the symbol "CLSN." The closing price of our common stock as reported on The NASDAQ Capital Market on June 10, 2011 was \$3.05 per share.

Investment in our common stock involves certain risks, including those described beginning on page 10 of our Annual Report on Form 10-K for the fiscal year ended December 31, 2010, as may be supplemented from time to time in our quarterly reports on Form 10-Q. You should consider such risk factors before investing in our common stock

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or passed upon the adequacy or accuracy of this prospectus. Any representation to the contrary is a criminal offense.

The date of this prospectus is June 13, 2011

We have not authorized any dealer, salesperson or any other person to give any information or to make any representations other than those contained in this prospectus in connection with the offer made by this prospectus and, if given or made, you must not rely upon such information representations as having been authorized by us or the selling stockholders identified herein. This prospectus does not constitute an offer to sell, or a solicitation of an offer to buy, the securities offered by this prospectus in any jurisdiction in which such offer or solicitation is not authorized, or to any person to whom it is unlawful to make such offer or solicitation. Neither the delivery of this prospectus nor any sale made under this prospectus will, under any circumstances, create any implication that the information contained in this prospectus is correct as of any time after the date of this prospectus.

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CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING STATEMENTS

Certain statements contained or incorporated by reference in this prospectus, in any applicable prospectus supplement and in any related free writing prospectus, constitute forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 and releases issued by the Securities and Exchange Commission (the “SEC”) and within the meaning of Section 27A of the Securities Act of 1933, as amended, or the Securities Act, and Section 21E of the Securities Exchange Act of 1934, as amended, or the Exchange Act. In addition, from time to time we may publish forward-looking statements relating to such matters as anticipated financial performance, business prospects, technological developments, new products, research and development activities and other aspects of our present and future business operations and similar matters that also constitute such forward-looking statements. These statements involve known and unknown risks, uncertainties, and other factors that may cause our or our industry’s actual results, levels of activity, performance, or achievements to be materially different from any future results, levels of activity, performance, or achievements expressed or implied by such forward-looking statements. Such factors include, among other things:

- unforeseen changes in the course of research and development activities and in clinical trials;
- possible changes in cost and timing of development and testing, capital structure, and other financial items;
- changes in approaches to medical treatment;
- introduction of new products by others;
- possible acquisitions of other technologies, assets or businesses;
- possible actions by customers, suppliers, strategic partners, potential strategic partners, competitors and regulatory authorities;
- and those listed under the header “Risk Factors” contained in other documents that are incorporated by reference into this prospectus.

In some cases, you can identify forward-looking statements by terminology such as “expect,” “anticipate,” “estimate,” “plan,” “believe,” “could,” “intend,” “predict,” “may,” “will,” “should,” “will” and words of similar import regarding the Company’s expectations. Forward-looking statements are only predictions and actual events or results may differ materially. Although we believe that our expectations are based on reasonable assumptions within the bounds of our current knowledge of our industry, business and operations, we cannot guarantee that actual results will not differ materially from our expectations. In evaluating such forward-looking statements, you should specifically consider various factors, including the risks outlined under the heading “Risk Factors” contained in the applicable prospectus supplement and any related free writing prospectus, and in our most recent annual report on Form 10-K and in our most recent quarterly report on Form 10-Q, as well as any amendments thereto reflected in subsequent filings with the SEC. The discussion of risks and uncertainties set forth in those filings is not necessarily a complete or exhaustive list of all risks facing the Company at any particular point in time. We operate in a highly competitive, highly regulated and rapidly changing environment, and our business is in a state of evolution. Therefore, it is likely that new risks will emerge, and that the nature and elements of existing risks will change, over time. It is not possible for management to predict all such risk factors or changes therein, or to assess either the impact of all such risk factors on our business or the extent to which any individual risk factor, combination of factors, or new or altered factors, may cause results to differ materially from those contained in any forward-looking statement. Also, these forward-looking statements represent our estimates and assumptions only as of the date such forward-looking statements are made. You should carefully read this prospectus, the applicable prospectus supplement and any related free writing prospectus, together with the information incorporated herein by reference as described under the section entitled “Where You Can Find Additional Information,” and with the understanding that our actual future results may be materially different from what we expect.

Except as required by law, forward-looking statements speak only as of the date they are made, and we assume no obligation to update any forward-looking statements publicly, or to update the reasons why actual results could differ materially from those anticipated in any forward-looking statements, even if new information becomes available.

AVAILABLE INFORMATION

We have filed with the SEC a registration statement on Form S-8, as amended (of which this prospectus is a part), under the Securities Act of 1933, as amended, with respect to the securities offered by this prospectus. This prospectus does not contain all of the information set forth in the registration statement, certain portions of which have been omitted as permitted by the rules and regulations of the SEC. Statements contained in this prospectus as to the contents of any contract or other document are not necessarily complete, and in each instance please see the copy of such contract or other document filed as an exhibit to the registration statement, each such statement being qualified in all respects by such reference and the exhibits and schedules thereto. For further information regarding us and the securities offered by this prospectus, please refer to the registration statement and such exhibits and schedules which may be obtained from the SEC at its principal office in Washington, D.C. upon payment of the fees prescribed by the Securities and Exchange Commission, or from its website.

We are required to file annual, quarterly and current reports, proxy statements and other information with the SEC. You may also read and copy any document we file with the SEC at the SEC's Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549. Please call the SEC at 1-800-732-0330 for further information on the operation of the public reference room. You also can request copies of these documents, upon payment of a duplicating fee, by writing to the SEC at 100 F Street, N.E., Washington, D.C. 20549, or obtain copies of these documents from the SEC's website at <http://www.sec.gov>.

INCORPORATION OF CERTAIN DOCUMENTS BY REFERENCE

The SEC allows us to "incorporate by reference" the information we file with them, which means that we can disclose important information to you by referring you to those documents. The information we incorporate by reference into this prospectus is considered to be part of this prospectus, and information that we file later with the SEC automatically will update and supersede this information. We incorporate by reference the documents listed below and any future filings we make with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act:

- (1) Our Annual Report on Form 10-K for the fiscal year ended December 31, 2010, as filed with the SEC on March 28, 2011; and
- (2) Our Quarterly Report on Form 10-Q for the fiscal quarter ended March 31, 2011, as filed with the SEC on May 12, 2011;
- (3) Our Current Reports on Form 8-K as filed with the SEC on January 18, 2011, March 22, 2011, April 12, 2011, May 11, 2011 and June 2, 2011;
- (4) Our Proxy Statement relating to our Annual Meeting of Stockholders to be held on June 10, 2011, as filed with the SEC on April 29, 2011; and
- (5) The description of our common stock contained in our registration statement on Form 8-A, as filed with the SEC on May 26, 2000, as amended by a Form 8-A/A dated February 7, 2008, and any amendments or reports filed for the purpose of updating such description.

Except as otherwise indicated, all documents we file with the SEC pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Exchange Act subsequent to the date of this prospectus and prior to the filing of a subsequent post-effective amendment that indicates that all securities offered have been sold or that deregisters all securities then remaining unsold will be deemed to be incorporated by reference into this prospectus and to be part hereof from the date of filing of such documents. Any statement contained in any document incorporated or deemed to be incorporated by reference herein will be deemed to be modified or superseded for purposes of this prospectus 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 such statement so modified or superseded will not be deemed, except as modified or superseded, to constitute a part of this prospectus.

We will provide, free of charge, to any person to whom a copy of this prospectus is delivered, upon written or oral request, a copy of any or all of the documents incorporated by reference into this prospectus, other than exhibits to those documents unless specifically incorporated by reference. To request a copy of those documents, you should contact us as set forth below under "Information About Us."

INFORMATION ABOUT US

We are an innovative oncology drug development company focused on the development of therapeutics for those suffering with difficult to treat forms of cancer. We are working to develop and commercialize more efficient, effective, targeted chemotherapeutic oncology drugs based on our proprietary heat-activated liposomal technology. The promise of this drug technology is to maximize efficacy while minimizing side effects common to cancer treatments.

Our lead product, ThermoDox®, is being evaluated in a Phase III clinical trial, which we refer to as the HEAT study, for primary liver cancer and a Phase I/II study for recurrent chest wall breast cancer. ThermoDox® is a liposomal encapsulation of doxorubicin, an approved and frequently used oncology drug for the treatment of a wide range of cancers. Localized mild hyperthermia (greater than 40 degrees Celsius) releases the encapsulated doxorubicin from the liposome enabling high concentrations of doxorubicin to be deposited preferentially in the region of the tumor target.

We also have demonstrated feasibility for a product pipeline of cancer drugs that employ its heat activated liposomal technology in combination with known chemotherapeutics including docetaxel and carboplatin. We believe that our technology can improve efficacy and safety of anticancer agents whose mechanism of action and safety profile are well understood by the medical and regulatory communities. Our approach provides a comparatively cost effective, low risk approval pathway. Additionally, we have formed a joint research agreement with Phillips Healthcare to evaluate the combination of Phillips' high intensity focused ultrasound (HIFU) with ThermoDox® to determine the potential of this combination to treat a broad range of cancers.

For certain markets, we may seek licensing partners to share in the development and commercialization costs. We will also evaluate licensing cancer products from third parties for cancer treatments to expand our development pipeline.

In the fourth quarter of 2008, we entered into a Development, Product Supply and Commercialization Agreement with Yakult Honsha under which Yakult was granted the exclusive right to commercialize and market ThermoDox® for the Japanese market. We were paid a \$2.5 million up-front licensing fee and we have the potential to receive additional payments from Yakult upon receipt of marketing approval by the Japanese Ministry of Health, Labor and Welfare as well as upon the achievement of certain levels of sales and approval for new indications. We will receive double digit escalating royalties on the sale ThermoDox® in Japan, when and if any such sales occur. We also will be the exclusive supplier of ThermoDox® to Yakult.

Concurrent with a preferred equity financing in January 2011, the Company amended its Development, Product Supply and Commercialization Agreement with Yakult to provide for up to \$4.0 million in an accelerated partial payment to us of a future drug approval milestone. The terms of the agreement with Yakult provide for the payment to the Company of \$2.0 million upon the closing of the preferred equity financing and an additional \$2.0 million conditioned upon the resumption of enrollment of Japanese patients in the Japan cohort of the HEAT study. In consideration of these accelerated milestone payments from Yakult, we have agreed to reduce future drug approval milestone payments by approximately forty percent (40%). All other milestone payments are unaffected.

In 2005, we made a strategic decision to divest our medical device business. We sold this medical device business to Boston Scientific Corporation in 2007 for net aggregate payments of \$43 million, receiving \$13 million in 2007 and \$15 million in each of 2008 and 2009. Since then, we have raised approximately \$24.3 million in equity financing providing a total of \$60 million to support our research and operations.

We were founded in 1982 and are a Delaware corporation. Our principal executive offices are located at 10220-L Old Columbia Road, Columbia, Maryland 21046. Our telephone number is (410) 290-5390 and our website is <http://www.celsion.com>. The information available on or through our websites is not a part of this prospectus and should not be relied upon.

USE OF PROCEEDS

We are registering the shares of common stock offered by this prospectus for the account of the Selling Stockholders identified in the section of this prospectus entitled "Selling Stockholders." All of the net proceeds from the sale of the common stock will go to the Selling Stockholders who offer and sell their shares of such stock. We will not receive any part of the proceeds from the sale of such shares.

SELLING STOCKHOLDERS

The Selling Stockholders are directors and executive officers listed in the table below who have acquired, or may acquire, the common stock offered by this prospectus pursuant to the Celsion Corporation 2001 Stock Incentive Plan, the Celsion Corporation 2004 Stock Incentive Plan or the Celsion Corporation 2007 Stock Incentive Plan, or pursuant to our employment agreement with our president and chief executive officer (collectively, the "Plans"). Each Selling Stockholder will receive all of the net proceeds from the sale of his shares of common stock offered by this prospectus.

The following table presents certain information regarding the ownership of our common stock by the Selling Stockholders as of June 10, 2011. The number of shares of common stock outstanding will not change as a result of the offering, nor will the number of shares owned or percentage of ownership of any persons other than the Selling Stockholders change as a result thereof. However, because the Selling Stockholders may offer from time to time all or some of their shares under this prospectus, or in another permitted manner, no assurances can be given as to the actual number of shares that will be sold by the Selling Stockholders or that will be held by the Selling Stockholders after completion of the sales.

Name and Position With Us	Number of Shares Owned Prior to Offering(1)	Number of Shares Offered Hereby(2)	Number of Shares to Be Owned After Offering(3)
Dr. Max E. Link Chairman of the Board	485,723	219,911	265,812
Michael H. Tardugno President, Chief Executive Officer and Director	1,040,370	937,412	102,958
Dr. Augustine Chow Director	214,084	145,000	69,084
Robert W. Hooper Director	134,814	70,000	64,814
Dr. Alberto Martinez Director	183,250	45,000	138,250
Gregory Weaver Director	189,281	157,009	32,272
Dr. Nicholas Borys Vice President and Chief Medical Officer	305,724	272,537	33,187
Jeffrey W. Church Vice President and Chief Financial Officer	218,574	205,000	13,574
Timothy J. Tumminello Controller and Chief Accounting Officer	55,927	45,807	10,120
Robert A. Reed, PhD. Vice President, CMC and Technical Operations	125,902	125,902	—
TOTAL:	<u>2,953,649</u>	<u>2,223,578</u>	<u>730,071</u>

- (1) Includes the following securities directly and indirectly beneficially owned by each Selling Stockholder: (a) shares of common stock acquired other than pursuant to the Plans, (b) common stock underlying options and restricted stock granted pursuant to the Plans (both vested and unvested), and (c) common stock issuable upon conversion of shares of series A 8% convertible redeemable preferred stock.
- (2) Includes all common stock underlying options granted, and all restricted stock issued, pursuant to the Plans.
- (3) Assumes all shares registered under this prospectus will be sold.

If and when a Selling Stockholder sells all of his shares of common stock registered under this prospectus, the following Selling Stockholders will own more than one percent (1%) of our common stock at June 10, 2011.

Name	Percentage Ownership
Dr. Max E. Link	1.4 %

Information regarding each Selling Stockholder's current relationship with us or our predecessors and affiliates and such relationships, if any, within the past three years is set forth below.

Dr. Max E. Link. Dr. Link has served as a director of the Company since 1997 and has been the Chairman of the Board of Directors since October 2001.

Mr. Michael H. Tardugno. Mr. Tardugno was appointed President and Chief Executive Officer of the Company on January 3, 2007 and was elected to the Board of Directors on January 22, 2007.

Dr. Augustine Chow. Dr. Augustine Chow was appointed to the Board of Directors in March 2007.

Mr. Robert W. Hooper. Mr. Hooper has served as a director of the Company since July 2010.

Dr. Alberto R. Martinez. Dr. Martinez joined Celsion's Board of Directors effective December 6, 2010.

Mr. Gregory Weaver. Mr. Weaver has been a director of the Company since 2005.

Dr. Nicholas Borys. Dr. Borys joined Celsion on October 1, 2007 as Vice President and Chief Medical Officer of the Company.

Mr. Jeffrey W. Church. Mr. Church joined Celsion in July 2010 as Vice President, Chief Financial Officer and Corporate Secretary.

Robert A. Reed, Ph.D. Dr. Reed joined Celsion on May 11, 2009 as Executive Director, CMC and Technical Operations and was promoted to Vice President, CMC and Technical Operations in February 2011.

Mr. Timothy J. Tumminello. Mr. Tumminello joined Celsion as Assistant Controller in April, 2009, was appointed as the Company's Controller and Interim Chief Accounting Officer on January 6, 2010. At the time of Mr. Church's appointment as the Company's Chief Financial Officer, Mr. Tumminello was named the Company's Chief Accounting Officer.

PLAN OF DISTRIBUTION

The Selling Stockholders may resell under this prospectus up to 2,223,578 shares of our common stock that have been issued to the Selling Stockholders as of June 13, 2011. The Selling Stockholders may sell the shares from time to time and may also decide not to sell all the shares they are permitted to sell under this prospectus. The Selling Stockholders will act independently of us in making decisions with respect to the timing, manner and size of each sale. The Selling Stockholders may effect such transactions by selling the shares to or through broker-dealers. Subject to the restrictions described in this prospectus, the shares of our common stock being offered under this prospectus may be sold from time to time by the Selling Stockholders in any of the following ways:

- our common stock may be sold through a broker or brokers, acting as principals or agents. Transactions through broker-dealers may include block trades in which brokers or dealers will attempt to sell our common stock as agent but may position and resell the block as principal to facilitate the transaction. Our common stock may be sold through dealers or agents or to dealers acting as market makers. Broker-dealers may receive compensation in the form of discounts, concessions, or commissions from the Selling Stockholders and/or the purchase of our common stock for whom such broker-dealers may act as agents or to whom they sell as principal, or both (which compensation as to a particular broker-dealer might be in excess of customary commissions);
- our common stock may be sold on any national securities exchange or quotation service on which our common stock may be listed or quoted at the time of sale, in the over-the-counter market, or in transactions otherwise than on such exchanges or services or in the over-the-counter market;
- our common stock may be sold through a block trade in which a broker or dealer engaged to handle the block trade will attempt to sell the securities as agent, but may position and resell a portion of the block as principal to facilitate the transaction;
- our common stock may be sold in private sales directly to purchasers; or
- our common stock may be sold in such other transactions as permitted by law.

To the extent required, this prospectus may be amended or supplemented from time to time to describe a specific plan of distribution. In effecting sales, broker-dealers engaged by the Selling Stockholders may arrange for other broker-dealers to participate in the resales.

Subject to any applicable restrictions under Section 16(c) of the Exchange Act, the Selling Stockholders may enter into hedging transactions with broker-dealers in connection with distributions of shares or otherwise. In such transactions, broker-dealers may engage in short sales of shares in the course of hedging the positions they assume with Selling Stockholders. The Selling Stockholders also may sell shares short and redeliver shares to close out such short positions. The Selling Stockholders may enter into option or other transactions with broker-dealers, which require the delivery of shares to the broker-dealer. The broker-dealer may then resell or otherwise transfer such shares pursuant to this prospectus.

Broker-dealers or agents may receive compensation in the form of commissions, discounts or concessions from Selling Stockholders. Broker-dealers or agents may also receive compensation from the purchasers of shares for whom they act as agents or to whom they sell as principals, or both. Compensation as to a particular broker-dealer might be in excess of customary commissions and will be in amounts to be negotiated in connection with transactions involving shares. Broker-dealers or agents and any other participating broker-dealers or the Selling Stockholders may be deemed to be “underwriters” within the meaning of Section 2(11) of the Securities Act of 1933, as amended (the “Securities Act”) in connection with sales of shares. Accordingly, any such commission, discount or concession received by them and any profit on the resale of shares purchased by them may be deemed to be underwriting discounts or commissions under the Securities Act. Because Selling Stockholders may be deemed to be “underwriters” within the meaning of Section 2(11) of the Securities Act, the Selling Stockholders will be subject to the prospectus delivery requirements of the Securities Act. In addition, any shares of a Selling Stockholder covered by this prospectus which qualify for sale pursuant to Rule 144 promulgated under the Securities Act may be sold under Rule 144 rather than pursuant to this prospectus.

The shares may be sold by Selling Stockholders only through registered or licensed brokers or dealers if required under applicable state securities laws. In addition, in certain states the shares may not be sold unless they have been registered or qualified for sale in the applicable state or an exception from the registration or qualification requirement is available and is complied with.

Under applicable rules and regulations under the Exchange Act, any person engaged in the distribution of shares may not simultaneously engage in market making activities with respect to our common stock for a period of two business days prior to the commencement of such distribution. In addition, each Selling Stockholder will be subject to applicable provisions of the Exchange Act and the associated rules and regulations under the Exchange Act, including Regulation M, which provisions may limit the timing of purchases and sales of shares of our common stock by the Selling Stockholders. We will make copies of this prospectus available to the Selling Stockholders and have informed them of the need for delivery of copies of this prospectus to purchasers at or prior to the time of any sale of the shares.

A Selling Stockholder may pledge or grant a security interest in some or all of the shares of common stock that it owns and, if it defaults in the performance of its secured obligations, the pledgees or secured parties may offer and sell the shares of common stock from time to time pursuant to this prospectus.

We will file a supplement to this prospectus, if required, pursuant to Rule 424(b) under the Securities Act upon being notified by a Selling Stockholder that any material arrangement has been entered into with a broker-dealer for the sale of shares through a block trade, special offering, exchange distribution or secondary distribution or a purchase by a broker or dealer. Such supplement will disclose:

- the name of each such Selling Stockholder and of the participating broker-dealer(s);
- the number of shares involved;
- the price at which such shares were sold;
- the commissions paid or discounts or concessions allowed to such broker-dealer(s), where applicable;
- that such broker-dealer(s) did not conduct any investigation to verify the information set out or incorporated by reference in this prospectus; and
- other facts material to the transaction.

We will bear all costs, expenses and fees in connection with the registration of the shares. The Selling Stockholders will bear all commissions and discounts, if any, attributable to the sales of the shares.

DESCRIPTION OF OUR COMMON STOCK

General

Our authorized capital stock consists of 75,000,000 shares of common stock, \$0.01 par value per share, and 100,000 shares of preferred stock, \$0.01 par value per share, of which 15,000 shares of Series C Junior Participating Preferred Stock were reserved for issuance under the Stockholder Rights Plan (described below) and 5,350 shares were designated as Series A 8% Redeemable Convertible Preferred Stock. As of June 10, 2011, there were 19,642,591 shares of our common stock outstanding and 942 shares of preferred stock outstanding.

The following summary description of our common stock is based on the applicable provisions of the Delaware General Corporation Law, or the DGCL, and on the provisions of our certificate of incorporation, as amended, or the Certificate of Incorporation, and our bylaws, as amended, or the Bylaws. This information is qualified entirely by reference to the applicable provisions of the DGCL and our Certificate of Incorporation and Bylaws. For information on how to obtain copies of our Certificate of Incorporation and Bylaws, which are exhibits to the Registration Statement, see the section entitled "Where You Can Find Additional Information" in this prospectus.

Common Stock

Holders of common stock to be registered hereunder are entitled to one vote for each share held of record on all matters submitted to a vote of stockholders and do not have cumulative voting rights. Subject to any preferential rights of any outstanding preferred stock, holders of common stock are entitled to receive ratably such dividends, if any, as may be declared from time to time by the Board of Directors of the Company, or the Board, out of funds legally available therefor. In the event of a dissolution, liquidation or winding-up of the Company, holders of common stock are entitled to share ratably in all assets remaining after payment of liabilities and any preferential rights of any outstanding preferred stock.

Holders of common stock have no preemptive or conversion rights or other subscription rights. There are no redemption or sinking fund provisions applicable to the common stock. All outstanding shares of common stock are fully paid and non-assessable. The rights, preferences and privileges of the holders of common stock are subject to, and may be adversely affected by, the rights of the holders of shares of any series of preferred stock which may be designated and issued in the future.

The Board is classified into three classes, designated as Class I, Class II and Class III, with each class to be elected for three year terms on a staggered basis. At each Annual Meeting of Stockholders, the directors elected to succeed those whose terms are expiring succeed to the same class as the directors they replace and each such new director is elected for a term to expire at the third annual meeting of stockholders after his or her election and when his or her successor is duly elected and qualified.

Holders of common stock have rights under the Rights Agreement described below under the caption "Anti-Takeover Considerations and Special Provisions of Our Certificate of Incorporation, Our Bylaws and the Delaware General Corporation Law—Stockholder Rights Plan".

Anti-Takeover Considerations and Special Provisions of Our Certificate of Incorporation, Our Bylaws and the Delaware General Corporation Law

Stockholder Rights Plan

On August 6, 2002, our Board declared a dividend distribution of one preferred share purchase right, or a Purchase Right, for each outstanding share of our common stock. The dividend was payable to the stockholders of record on August 6, 2002, or the Record Date, and with respect to shares of common stock issued thereafter until the Distribution Date (as defined below) and, in certain circumstances, with respect to shares of common stock issued after the Distribution Date. Except as set forth below, when it becomes exercisable, each Purchase Right entitles the registered holder to purchase from the Company one ten-thousandth ($1 / 10,000$) of a share of Series C Junior Participating Preferred Stock, par value \$0.01 per share, of the Company, or the Series C Preferred Stock, at a price of \$66.90 per one ten-thousandth ($1 / 10,000$) of a share of Series C Preferred Stock, or the Purchase Price, subject to adjustment. The description and terms of the Purchase Rights are set forth in a Rights Agreement between the Company and American Stock Transfer & Trust Company, as rights agent, dated as of August 15, 2002, or the Effective Date, as amended on January 16, 2003, collectively referred to herein as the Rights Agreement.

Initially, the Purchase Rights will be attached to all certificates representing shares of common stock outstanding as of the Record Date, and no separate certificates representing the Purchase Rights, or Right Certificates, will be distributed. The Purchase Rights will separate from the common stock upon the earlier to occur of (A) a person or group of affiliated or associated persons having acquired beneficial ownership of fifteen percent (15%) or more of the outstanding shares of common stock or (B) ten (10) days (or such later date as the Board may determine) after the commencement of, or announcement of an intention to make, a tender offer or exchange offer the completion of which would result in a person or group of affiliated or associated persons becoming an Acquiring Person (as defined below) (in either case, the Distribution Date). A person or group whose acquisition of shares of common stock cause a distribution date pursuant to clause (A) above is an "Acquiring Person," with certain exceptions set forth in the Rights Agreement. The date on which a person or group is first publicly announced to have become such by the Company or such Acquiring Person or an earlier date on which a majority of the then-sitting members of the Board becomes aware of the existence of such Acquiring Person is referred to below and in the Rights Agreement as the "Stock Acquisition Date".

If any person becomes an Acquiring Person, each holder of a Purchase Right will thereafter have the right (the "Flip-In Right") to receive, upon exercise, the number of shares of common stock (or, in certain circumstances, one ten-thousandth (1 / 10,000) of a share of Series C Preferred Stock) or other securities of the Company having a value (immediately before such triggering event) equal to two (2) times the exercise price of the Purchase Right. Notwithstanding the foregoing, after the Flip-In Right is triggered as described above, all Purchase Rights that are, or (under certain circumstances specified in the Rights Agreement) were, beneficially owned by any Acquiring Person or any affiliate or associate thereof will be null and void. The Board has the option, at any time after any person becomes an Acquiring Person but before an Acquiring Person becomes the beneficial owner of fifty percent (50%) or more of the Common Stock, to exchange all or part of the then-exercisable Purchase Rights (excluding those that have become void, as described in the immediately preceding sentence) for shares of common stock, at a one-to-one exchange ratio, appropriately adjusted to reflect any stock split, stock dividend or similar transaction having occurred since the Effective Date.

If, at any time after the Stock Acquisition Date, (A) the Company consolidates or merges with another person, (B) any Person merges with and into the Company, with the Company being the surviving corporation and, in connection with such merger, all or part of the common stock is changed into or exchanged for stock or other securities of any other Person (or of the Company) or cash or any other property, or (C) the Company sells or otherwise transfers, in one or more transactions, assets or earning power aggregating fifty percent (50%) or more of its consolidated assets or earning power to any other Person, then each holder of a Purchase Right (except Purchase Rights which previously have been voided as set forth above) shall thereafter have the right (the "Flip-Over Right") to receive, upon exercise, common shares of the acquiring company (or, in certain circumstances, its parent), having a value equal to two times the exercise price of the Purchase Right. The holder of a Right will continue to have the Flip-Over Right whether or not such holder exercises or surrenders the Flip-In Right.

Series C Preferred Stock purchasable upon exercise of the Purchase Rights will not be redeemable. Each share of Series C Preferred Stock will be entitled to ten thousand (10,000) votes per share (subject to customary antidilution provisions) on matters submitted to a vote of the shareholders. Each share of Series C Preferred Stock will be entitled to a minimum preferential quarterly dividend payment of \$100 per share but, if greater, will be entitled to a total dividend per share of ten thousand (10,000) times the dividend declared per share of common stock. In the event of liquidation, the holders of shares of the Series C Preferred Stock will be entitled to a minimum preferential liquidation payment per share in an amount equal to the greater of \$66.90 or ten thousand (10,000) times the payment made per share of common stock plus an amount equal to accrued and unpaid dividends and distributions thereon, whether or not declared, to the date of such payment. Finally, in the event of any merger, consolidation or other transaction in which shares of common stock are exchanged, each share of Series C Preferred Stock will be entitled to receive ten thousand (10,000) times the amount received per share of common stock. These rights are protected by customary antidilution provisions.

At any time before the earlier to occur of (A) a person becoming an Acquiring Person or (B) the expiration of the Rights, and under certain other circumstances, the Company may redeem the Purchase Rights in whole, but not in part, at a price of \$0.01 per Purchase Right, or the Redemption Price. The Purchase Rights are not exercisable until the Distribution Date and will expire on August 15, 2012, unless earlier redeemed.

Certificate of Incorporation and Bylaws

A number of provisions of our Certificate of Incorporation and our Bylaws concern matters of corporate governance and the rights of our stockholders. Provisions that grant our Board the ability to issue shares of preferred stock and to set the voting rights, preferences and other terms thereof may discourage takeover attempts that are not first approved by our Board, including takeovers that may be considered by some stockholders to be in their best interests, such as those attempts that might result in a premium over the market price for the shares held by stockholders. Certain provisions could delay or impede the removal of incumbent directors even if such removal would be beneficial to our stockholders, such as the classification of our Board and the lack of cumulative voting. Since our board of directors has the power to retain and discharge our officers, these provisions could also make it more difficult for existing stockholders or another party to effect a change in management.

These provisions may have the effect of deterring hostile takeovers or delaying changes in our control or in our management. These provisions are intended to enhance the likelihood of continued stability in the composition of our board of directors and in the policies they implement, and to discourage certain types of transactions that may involve an actual or threatened change of our control. These provisions are designed to reduce our vulnerability to an unsolicited acquisition proposal. The provisions also are intended to discourage certain tactics that may be used in proxy fights. However, such provisions could have the effect of discouraging others from making tender offers for our shares and, as a consequence, they also may inhibit fluctuations in the market price of our shares that could result from actual or rumored takeover attempts.

These provisions also could discourage or make more difficult a merger, tender offer or proxy contest, even if they could be favorable to the interests of stockholders, and could potentially depress the market price of our common stock. Our Board believes that these provisions are appropriate to protect our interests and the interests of our stockholders.

Classification of Board and No Cumulative Voting. Our Certificate of Incorporation and Bylaws provide for our Board to be divided into three classes, with staggered three-year terms. Only one class of directors is elected at each annual meeting of our stockholders, with the other classes continuing for the remainder of their respective three-year terms. Because our stockholders do not have cumulative voting rights, our stockholders representing a majority of the shares of common stock outstanding will be able to elect all of our directors due to be elected at each annual meeting of our stockholders.

Meetings of and Actions by Stockholders. Our Bylaws provide that annual meetings of our stockholders may take place at the time and place designated by our Board. A special meeting of our stockholders may be called at any time by the Board, the chairman of the Board or the president. Subject to the rights of the holders of any series of preferred stock or any other class of stock or series thereof having a preference over the common stock as to dividends or upon liquidation, stockholders may take action only at a regular or special meeting of stockholders and not by written consent without a meeting.

Advance Notice Requirements for Stockholder Proposals and Director Nominations. Our Bylaws provide that stockholders seeking to bring business before an annual meeting of stockholders or to nominate candidates for election as directors at an annual meeting of stockholders must provide timely notice in writing. To be timely, a stockholder's notice must be delivered to our principal executive offices not less than 120 days prior to the date specified in the Company's proxy statement released to stockholders in connection with the previous year's annual meeting. If no annual meeting was held in the previous year or the date of the annual meeting has been changed by more than 30 days from the date contemplated at the time of the previous year's proxy statement, notice by the stockholder in order to be timely must be received by the Company no later than the close of business on the later of the 120th day prior to the date of such annual meeting or the tenth day following the day on which public announcement of the date of the meeting was first made. Our Bylaws also specify requirements as to the form and content of a stockholder's notice. These provisions may preclude stockholders from bringing matters before an annual meeting of stockholders or from making nominations for the election of directors at an annual meeting of stockholders.

Filling of Board Vacancies. Our Certificate of Incorporation and our Bylaws provide that vacancies in the Board and newly created directorships resulting from any increase in the authorized number of directors on the Board may be filled by a majority of the directors remaining in office, even though that number may be less than a quorum of the Board, or by a sole remaining director. A director so elected to fill a vacancy shall serve for the remaining term of the predecessor he or she replaced and until his or her successor is elected and has qualified, or until his or her earlier resignation, removal or death.

Amendment of the Certificate of Incorporation. Our Certificate of Incorporation may be amended, altered, changed or repealed at a meeting of the stockholders of the Company entitled to vote thereon by the affirmative vote of a majority of the outstanding stock entitled to vote thereon and a majority of the outstanding stock of each class entitled to vote thereon as a class, in the manner prescribed by the DGCL.

Amendment of the Bylaws. Our Bylaws may be altered, amended, changed, added-to or repealed (i) by the board of directors or (ii) by the stockholders entitled to vote. The bylaws can only be amended if such amendment would not conflict with the Certificate of Incorporation or applicable law. Any bylaw made or altered by the requisite number of stockholders may be altered or repealed by the Board or by the requisite number of stockholders.

Section 203 of the Delaware General Corporation Law

We are subject to Section 203 of the Delaware General Corporation Law ("Section 203"), which prohibits a Delaware corporation from engaging in any business combination with any interested stockholder for a period of three years after the date that such stockholder became an interested stockholder, with the following exceptions:

- before such date, the board of directors of the corporation approved either the business combination or the transaction that resulted in the stockholder becoming an interested stockholder;
- upon completion of the transaction that resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction began, excluding for purposes of determining the voting stock outstanding (but not the outstanding voting stock owned by the interested stockholder) those shares owned (i) by persons who are directors and also officers and (ii) employee stock plans in which employee participants do not have the right to determine confidentially whether shares held subject to the plan will be tendered in a tender or exchange offer; or
- on or after such date, the business combination is approved by the board of directors and authorized at an annual or special meeting of the stockholders, and not by written consent, by the affirmative vote of at least $\frac{66}{3}$ % of the outstanding voting stock that is not owned by the interested stockholder.

In general, Section 203 defines a business combination to include the following:

- any merger or consolidation involving the corporation and the interested stockholder;
- any sale, lease, transfer, pledge or other disposition of 10% or more of the assets of the corporation to or with the interested stockholder;
- subject to certain exceptions, any transaction that results in the issuance or transfer by the corporation of any stock of the corporation to the interested stockholder;
- any transaction involving the corporation that has the effect of increasing the proportionate share of the stock or any class or series of the corporation beneficially owned by the interested stockholder; or
- the receipt by the interested stockholder of the benefit of any loss, advances, guarantees, pledges or other financial benefits by or through the corporation.

In general, Section 203 defines an interested stockholder as an entity or person beneficially owning 15% or more of the outstanding voting stock of the corporation or any entity or person affiliated with or controlling or controlled by such entity or person.

Transfer Agent and Registrar

The transfer agent and registrar for our common stock is American Stock Transfer & Trust Company, 59 Maiden Lane, Plaza Level, New York, NY 10038. Its phone number is (800)-937-5449.

NASDAQ Capital Market Listing

Our common stock is listed on The NASDAQ Capital Market under the symbol "CLSN."

EXPERTS

Stegman & Company, independent registered public accounting firm, has audited our financial statements included in our Annual Report on Form 10-K for the year ended December 31, 2010, as set forth in their report, which is incorporated by reference in this prospectus and elsewhere in the registration statement. Our financial statements are incorporated by reference in reliance on Stegman & Company's report, given on their authority as experts in accounting and auditing.

LEGAL MATTERS

Our counsel, Seyfarth Shaw LLP, New York, New York, issued an opinion to us regarding certain legal matters in connection with this offering, including the validity of the issuance of the shares of common stock offered by this prospectus.

2,223,578 Shares

CELSION CORPORATION

Common Stock

PROSPECTUS

June 13, 2011

PART II
INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

Item 3. Incorporation of Documents By Reference.

We hereby incorporate by reference in this registration statement, as amended, the following documents:

- (1) Our Annual Report on Form 10-K for the fiscal year ended December 31, 2010, as filed with the SEC on March 28, 2011; and
- (2) Our Quarterly Report on Form 10-Q for the fiscal quarter ended March 31, 2011, as filed with the SEC on May 12, 2011;
- (3) Our Current Reports on Form 8-K as filed with the SEC on January 18, 2011, March 22, 2011, April 12, 2011, May 11, 2011, May 26, 2011 and June 2, 2011;
- (4) Our Proxy Statement relating to our Annual Meeting of Stockholders to be held on June 10, 2011, as filed with the SEC on April 29, 2011; and
- (5) The description of our common stock contained in our registration statement on Form 8-A, as filed with the SEC on May 26, 2000, as amended by a Form 8-A/A dated February 7, 2008, and any amendments or reports filed for the purpose of updating such description.

All documents filed by the Company with the SEC pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Exchange Act, subsequent to the date of this Registration Statement and prior to the filing of a subsequent post-effective amendment that indicates that all securities offered have been sold or which deregisters all securities then remaining unsold will be deemed to be incorporated by reference in this Registration Statement and to be part hereof from the date of filing of such documents. Any statement contained in any document incorporated or deemed to be incorporated by reference herein will 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 such statement so modified or superseded will not be deemed, except as modified or superseded, to constitute a part of this Registration Statement.

Item 4. Description of Securities.

Not applicable.

Item 5. Interests of Named Experts and Counsel.

Not applicable.

Item 6. Indemnification of Directors and Officers.

The registrant is organized under the laws of the State of Delaware. Our Certificate of Incorporation provides that we shall indemnify our current and former directors and officers, and may indemnify our current and former employees and agents, against any and all liabilities and expenses incurred in connection with their services in those capacities to the maximum extent permitted by Delaware law.

The Delaware General Corporation Law, or DGCL, provides that a Delaware corporation has the power generally to indemnify its current and former directors, officers, employees and other agents, each, a Corporate Agent, against expenses and liabilities (including amounts paid in settlement) in connection with any proceeding involving such person by reason of his being a Corporate Agent, other than a proceeding by or in the right of the corporation, if such person 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 proceeding, such person had no reasonable cause to believe his conduct was unlawful.

In the case of an action brought by or in the right of the corporation, indemnification of a Corporate Agent is permitted if such person acted in good faith and in a manner he reasonably believed to be in or not opposed to the best interests of the corporation. However, no indemnification is permitted 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 court in which such proceeding was brought shall determine upon application that despite the adjudication of liability, but in view of all the circumstances of the case, such person is fairly and reasonably entitled to such indemnification.

To the extent that a Corporate Agent has been successful on the merits or otherwise in the defense of such proceeding, whether or not by or in the right of the corporation, or in the defense of any claim, issue or matter therein, the corporation is required to indemnify such person for expenses in connection therewith. Under the DGCL, the corporation may advance expenses incurred by a Corporate Agent in connection with a proceeding, provided that the Corporate Agent undertakes to repay such amount if it shall ultimately be determined that such person is not entitled to indemnification. Our Certificate of Incorporation requires us to advance expenses to any person entitled to indemnification, provided that such person undertakes to repay the advancement if it is determined in a final judicial decision from which there is no appeal that such person is not entitled to indemnification.

The power to indemnify and advance the expenses under the DGCL does not exclude other rights to which a Corporate Agent may be entitled to under the Certificate of Incorporation, by laws, agreement, vote of stockholders or disinterested directors or otherwise.

Our Certificate of Incorporation permits us to secure insurance on behalf of our directors, officers, employees and agents for any expense, liability or loss incurred in such capacities, regardless of whether the Certificate of Incorporation or Delaware law would permit Indemnification against such expense, liability or loss.

The purpose of these provisions is to assist us in retaining qualified individuals to serve as our directors, officers, employees and agents by limiting their exposure to personal liability for serving as such.

Item 7. Exemption From Registration Claimed.

Not applicable.

Item 8. Exhibits.

EXHIBIT NO. DESCRIPTION

3.1	Certificate of Incorporation of Celsion (the "Company"), as amended, incorporated herein by reference to Exhibit 3.1.1 to the Quarterly Report on Form 10-Q of the Company for the quarter ended June 30, 2004.
3.2	Certificate of Ownership and Merger of Celsion Corporation (a Maryland Corporation) into Celsion (Delaware) Corporation (inter alia, changing the Company's name to "Celsion Corporation" from "Celsion (Delaware) Corporation), incorporated herein by reference to Exhibit 3.1.3 to the Annual Report on Form 10-K of the Company for the year ended September 30, 2000.
3.3	Certificate of Designations of Series C Junior Participating Preferred Stock of Celsion Corporation, incorporated herein by reference to Exhibit 4.4 to the Form S-3 Registration Statement (File No. 333-100638), filed October 18, 2002.
3.4	Certificate of Amendment of the Certificate of Incorporation effective and filed on February 27, 2006, incorporated therein by reference to Exhibit 3.3 to the Annual Report on Form 10-K of the Company for the year ended December 31, 2006.
3.5	Certificate of Designation for 8% Series A Redeemable Convertible Preferred Stock of Celsion Corporation, incorporated herein by reference to Exhibit 3.1 to the Current Report on Form 8-K as filed with the SEC on January 18, 2011.

EXHIBIT NO. DESCRIPTION

3.6	By-laws of the Company, as amended, incorporated herein by reference to Exhibit 3.1 to the Current Report on Form 8-K of the Company, filed December 14, 2007.
4.1	Form of Common Stock Certificate, par value \$0.01, incorporated herein by reference to Exhibit 4.1 to the Annual Report on Form 10-K of the Company for the year ended September 30, 2001.
4.2	Celsion Corporation and American Stock Transfer & Trust Company Rights Agreement dated as of August 15, 2002, incorporated herein by reference to Exhibit 99.1 to the Current Report on Form 8-K of the Company, filed August 21, 2002.
4.3	Amendment adopted January 16, 2003 to Rights Agreement between Celsion Corporation and American Stock Transfer & Trust Company, incorporated herein by reference to Exhibit 4.1 to the Quarterly Report on Form 10-Q of the Company for the quarter ended June 30, 2004.
4.4	Form of Common Stock Warrant, incorporated herein by reference to Exhibit 4.1 to the Current Report on Form 8-K of the Company, filed with the SEC on September 28, 2009.
4.5	Registration Rights Agreement, dated June 17, 2010, by and between Celsion Corporation and Small Cap Biotech Value, Ltd., incorporated herein by reference to Exhibit 4.1 to the Current Report on Form 8-K of the Company, filed with the SEC on June 18, 2010.
4.6	Form of 8% Series A Redeemable Convertible Preferred Stock Certificate incorporated herein by reference to Exhibit 4.1 to the Current Report on Form 8-K as filed with the SEC on January 18, 2011.
4.7	Form of Common Stock Warrant incorporated herein by reference to Exhibit 4.2 to the Current Report on Form 8-K as filed with the SEC on January 18, 2011.
4.8	Form of 8% Series A Redeemable Convertible Preferred Stock Warrant incorporated herein by reference to Exhibit 4.3 to the Current Report on Form 8-K as filed with the SEC on January 18, 2011.
5.1+	Opinion of Seyfarth Shaw LLP.
23.1+	Consent of Stegman & Company, independent registered public accounting firm for the Company.
23.2+	Consent of Seyfarth Shaw LLP (included in Exhibit 5.1).

+ 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;
 - (ii) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than 20 percent (20%) change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement;
 - (iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement;

Provided, however, that paragraphs (a)(1)(i) and (a)(1)(ii) do not apply if the registration statement is on Form S-8, and the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the Securities and Exchange Commission by the registrant pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934 that are incorporated by reference in the registration statement.

- (2) That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
- (3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

- (b) The undersigned registrant hereby undertakes that, for purposes of determining any liability under the Securities Act of 1933, each filing of the registrant's annual report pursuant to Section 13(a) or Section 15(d) of the Securities Exchange Act of 1934 (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Securities Exchange Act of 1934) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
- (c) Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Act and will be governed by the final adjudication of such issue.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Columbia, State of Maryland, on June 13, 2011.

CELSION CORPORATION

By: /s/ Michael H. Tardugno

Name: Michael H. Tardugno

Title: *President and Chief Executive Officer*

KNOW ALL MEN BY THESE PRESENTS, that each person whose signature appears below hereby constitutes and appoints Michael H. Tardugno, Jeffrey W. Church, Timothy J. Tumminello, or any one of them, his or her attorneys-in-fact and agents, each with full power of substitution and resubstitution for him or her in any and all capacities, to sign any or all amendments or post-effective amendments to this registration statement or a registration statement prepared in accordance with Rule 462 of the Securities Act of 1933, as amended, and to file the same, with exhibits thereto and other documents in connection herewith or in connection with the registration of the offered securities under the Securities Exchange Act of 1934, as amended, with the Securities and Exchange Commission, granting unto each of such attorneys-in-fact and agents full power to do and perform each and every act and thing requisite and necessary in connection with such matters and hereby ratifying and confirming all that each of such attorneys-in-fact and agents or his or her substitutes may do or cause to be done by virtue hereof.

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

<u>Name</u>	<u>Position</u>	<u>Date</u>
<u>/s/ Michael H. Tardugno</u> (Michael H. Tardugno)	President and Chief Executive Officer and Director (Principal Executive Officer)	June 13, 2011
<u>/s/ Jeffrey W. Church</u> (Jeffrey W. Church)	Vice President and Chief Financial Officer (Principal Financial Officer)	June 13, 2011
<u>/s/ Timothy J. Tumminello</u> (Timothy J. Tumminello)	Controller and Chief Accounting Officer (Principal Accounting Officer)	June 13, 2011
<u>/s/ Max E. Link</u> (Max E. Link, PhD.)	Chairman of the Board, Director	June 13, 2011
<u>/s/ Augustine Chow</u> (Augustine Chow, PhD.)	Director	June 13, 2011
<u>/s/ Robert W. Hooper</u> (Robert W. Hooper)	Director	June 13, 2011
<u>/s/ Alberto Martinez</u> (Alberto Martinez)	Director	June 13, 2011
<u>/s/ Gregory Weaver</u> (Gregory Weaver)	Director	June 13, 2011

INDEX TO EXHIBITS

<u>EXHIBIT NO.</u>	<u>DESCRIPTION</u>
3.1	Certificate of Incorporation of Celsion (the "Company"), as amended, incorporated herein by reference to Exhibit 3.1.1 to the Quarterly Report on Form 10-Q of the Company for the quarter ended June 30, 2004.
3.2	Certificate of Ownership and Merger of Celsion Corporation (a Maryland Corporation) into Celsion (Delaware) Corporation (inter alia, changing the Company's name to "Celsion Corporation" from "Celsion (Delaware) Corporation"), incorporated herein by reference to Exhibit 3.1.3 to the Annual Report on Form 10-K of the Company for the year ended September 30, 2000.
3.3	Certificate of Designations of Series C Junior Participating Preferred Stock of Celsion Corporation, incorporated herein by reference to Exhibit 4.4 to the Form S-3 Registration Statement (File No. 333-100638), filed October 18, 2002.
3.4	Certificate of Amendment of the Certificate of Incorporation effective and filed on February 27, 2006, incorporated therein by reference to Exhibit 3.3 to the Annual Report on Form 10-K of the Company for the year ended December 31, 2006.
3.5	Certificate of Designation for 8% Series A Redeemable Convertible Preferred Stock of Celsion Corporation,

EXHIBIT NO. DESCRIPTION

3.6	By-laws of the Company, as amended, incorporated herein by reference to Exhibit 3.1 to the Current Report on Form 8-K of the Company, filed December 14, 2007.
4.1	Form of Common Stock Certificate, par value \$0.01, incorporated herein by reference to Exhibit 4.1 to the Annual Report on Form 10-K of the Company for the year ended September 30, 2001.
4.2	Celsion Corporation and American Stock Transfer & Trust Company Rights Agreement dated as of August 15, 2002, incorporated herein by reference to Exhibit 99.1 to the Current Report on Form 8-K of the Company, filed August 21, 2002.
4.3	Amendment adopted January 16, 2003 to Rights Agreement between Celsion Corporation and American Stock Transfer & Trust Company, incorporated herein by reference to Exhibit 4.1 to the Quarterly Report on Form 10-Q of the Company for the quarter ended June 30, 2004.
4.4	Form of Common Stock Warrant, incorporated herein by reference to Exhibit 4.1 to the Current Report on Form 8-K of the Company, filed with the SEC on September 28, 2009.
4.5	Registration Rights Agreement, dated June 17, 2010, by and between Celsion Corporation and Small Cap Biotech Value, Ltd., incorporated herein by reference to Exhibit 4.1 to the Current Report on Form 8-K of the Company, filed with the SEC on June 18, 2010.
4.6	Form of 8% Series A Redeemable Convertible Preferred Stock Certificate incorporated herein by reference to Exhibit 4.1 to the Current Report on Form 8-K as filed with the SEC on January 18, 2011.
4.7	Form of Common Stock Warrant incorporated herein by reference to Exhibit 4.2 to the Current Report on Form 8-K as filed with the SEC on January 18, 2011.
4.8	Form of 8% Series A Redeemable Convertible Preferred Stock Warrant incorporated herein by reference to Exhibit 4.3 to the Current Report on Form 8-K as filed with the SEC on January 18, 2011.
5.1+	Opinion of Seyfarth Shaw LLP.
23.1+	Consent of Stegman & Company, independent registered public accounting firm for the Company.
23.2+	Consent of Seyfarth Shaw LLP (included in Exhibit 5.1).

+ Filed herewith.

[Letterhead of Seyfarth Shaw LLP]

June 13, 2011

Celsion Corporation
10220-L Old Columbia Road
Columbia, MD 21046-2364

Ladies and Gentlemen:

We have acted as counsel for Celsion Corporation, a Delaware corporation (the "Company"), in connection with the filing with the Securities and Exchange Commission of a Post-Effective Amendment No. 1 to a Registration Statement on Form S-8, File No. 333-145680, which pursuant to Rule 429 under the Securities Act of 1933, as amended (the "Securities Act"), also constitutes Post-Effective Amendment No. 1 to the Company's Registration Statements on Form S-8, File Nos. 139784, 116435 and 333-67580 (each, a "Registration Statement" and collectively, the "Registration Statements"), relating to the registration of 21,430,000 shares (the "Shares") of the Company's common stock, par value \$0.01 per share, for delivery under the Company's equity compensation plans as described in the Registration Statements (collectively, the "Plans").

In our capacity as your counsel in connection with the Registration Statements, we are familiar with the proceedings taken and proposed to be taken by the Company in connection with the authorization and issuance of the Shares and, for the purposes of this opinion, have assumed such proceedings will be timely completed in the manner presently proposed. In addition, we have made such legal and factual examinations and inquiries, including examination of originals or copies of originals, certified or otherwise identified to our satisfaction, of such documents, corporate records and instruments, as we have deemed necessary or appropriate for purposes of this opinion. Except to the extent expressly set forth herein, we have made no independent investigations with regard to matters of fact material to the opinions set forth herein and with respect to such factual matters we have relied upon certificates of, or communications with, officers of the Company and others.

In our examination of the relevant documents, we have assumed the genuineness of all signatures, the legal competence of all natural persons, the authenticity of all documents submitted to us as originals and the conformity with the original documents of all documents submitted to us as copies.

Except as otherwise set forth herein, the opinions set forth below are limited to the laws of the States of Delaware, New York and the laws of the United States of America, and we express no opinion with respect to state securities laws or regulations.

Based upon and subject to the foregoing, it is our opinion that: (i) the Shares have been duly authorized; (ii) upon issuance of Shares against consideration therefore pursuant to the terms and conditions set forth in the Plans, the Shares will be legally issued, fully-paid and non-assessable shares of Common Stock of the Company under the laws of the State of Delaware.

We consent to the use of this opinion as an exhibit to the Registration Statements and further consent to the reference to us under the heading "Legal Matters" in the Registration Statements, the Rule 429 prospectus constituting a part thereof and any amendments thereto. This opinion letter is given to you for use in connection with the issuance of the Shares in accordance with the Registration Statement and is not to be relied on for any other purpose. Our opinion is expressly limited to the matters set forth above, and we render no opinion, whether by implication or otherwise, as to any other matters relating to the Company, the Shares or the Registration Statement.

Very truly yours,

/s/ SEYFARTH SHAW LLP

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTANTS

We consent to the incorporation by reference in this registration statement of Celsion Corporation on the Post-Effective Amendment No.1 to Form S-8 of our report dated March 24, 2011 related to the financial statements of Celsion Corporation included in its Annual Report on forms 10-K for the year ended December 31, 2010, filed with the Securities and Exchange Commission, and to the reference of our firm under the heading "Experts" in the Prospectus, which is a part of the Registration Statement.

/s/ Stegman & Company.

Baltimore, Maryland
June 13, 2011