

GENETRONICS BIOMEDICAL CORP
Form S-3
June 21, 2004

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As Filed with the Securities and Exchange Commission on June 21, 2004

Registration No. 333-

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM S-3

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

GENETRONICS BIOMEDICAL CORPORATION

(Exact Name of Registrant as Specified in its Charter)

Delaware

(State or other jurisdiction
of incorporation or organization)

3841

(Primary Standard Industrial
Classification Code Number)

33-0969592

(I.R.S. Employer
Identification Number)

**11199 Sorrento Valley Road
San Diego, California 92121
Telephone (858) 597-6006
Facsimile (858) 597-0119**

(Address including zip code and telephone number, including area code,
of registrant's principal executive offices)

Avtar Dhillon

Chief Executive Officer and President

**11199 Sorrento Valley Road
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Telephone (858) 597-6006
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(Name, address, including zip code, and telephone number,
including area code, of agent for service)

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**Approximate date of commencement of proposed sale to the public:
From time to time after the effective date of this Registration Statement.**

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If the only securities being registered on this Form are to be offered pursuant to dividend or interest reinvestment plans, please check the following box.

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box.

If this form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If delivery of the prospectus is expected to be made pursuant to Rule 434, please check the following box.

CALCULATION OF REGISTRATION FEE

Title of Each Class of Securities to be Registered	Amount to be Registered	Proposed Maximum Offering Price Per Share(1)	Proposed Maximum Aggregate Offering Price	Amount of Registration Fee
Common Stock, \$.001 par value	6,412,542(2)	\$1.32	\$8,464,555	\$1,073
Common Stock, \$.001 par value	2,244,393(3)	1.32	2,962,599	375
Common Stock, \$.001 par value	610,078(4)	1.32	805,303	102
Total Registration Fee			\$12,232,457	\$1,550

- (1) The price of \$1.32, the average of the high and low prices of the Registrant's common stock on the American Stock Exchange on June 18, 2004 is set forth solely for the purpose of computing the registration fee pursuant to Rule 457(c).
- (2) Represents shares of the Registrant's common stock that have been or may be acquired by the selling stockholders upon the conversion of 1,091 shares of Series C preferred stock that have been issued, assuming a conversion rate equal to 5,882.35 shares of common stock per share of Series C preferred stock.
- (3) Represents shares of the Registrant's common stock that have been or may be acquired upon the exercise of warrants issued to the selling stockholders.
- (4) Represents shares of the Registrant's common stock that have been acquired by the selling stockholders in connection with placement agent fees.

The registrant hereby amends this Registration Statement on such date or dates as may be necessary to delay its effective date until the Registration shall file a further amendment which specifically states that this Registration Statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933 or until the Registration Statement shall become effective on such date as the Commission, acting pursuant to said Section 8(a), may determine.

Subject to Completion, Dated June 21, 2004

The information in this prospectus is not complete and may be changed. We may sell these securities until the registration statement relating to these securities that has been filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities and it is not soliciting an offer to buy these securities in any state where the offer or sale is not permitted.

PROSPECTUS

9,267,013 Shares

Common Stock

This prospectus relates to 9,267,013 shares of common stock of Genetronics Biomedical Corporation that may be sold from time to time by the selling stockholders named on page 17 of this prospectus. We will not receive any proceeds from the sales by the selling stockholders.

Our common stock is traded on the American Stock Exchange under the symbol "GEB." On June 18, 2004, the last reported sale price for our common stock on the American Stock Exchange was \$1.32 per share.

The securities offered by this prospectus involve a high degree of risk. See "Risk Factors" beginning on page 6.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

This prospectus is dated _____, 2004

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You should rely only on the information contained or incorporated by reference in this prospectus or any prospectus supplement. We have not authorized anyone to provide you with information different from that contained or incorporated by reference into this prospectus. No dealer, salesperson or other person is authorized to give any information or to represent anything not contained in this prospectus. You must not rely on any unauthorized information or representation. You should assume that the information contained in this prospectus or any prospectus supplement is accurate only as of the date on the front of the document and that any information contained in any document we have incorporated by reference is accurate only as of the date of the document incorporated by reference, regardless of the time of delivery of this prospectus or any prospectus supplement or any sale of a security. These documents are not an offer to sell or a solicitation of an offer to buy these shares of common stock in any circumstances under which the offer or solicitation is unlawful.

Prospectus Summary

This summary highlights some information from this prospectus, and it may not contain all of the information that is important to you. You should read the following summary together with the more detailed information regarding our company and the shares being sold in this offering, including "Risk Factors" and our consolidated financial statements and related notes, included elsewhere in, or incorporated by reference into, this prospectus.

Our Company

We are a San Diego-based biomedical company whose technology platform is based on medical devices that use Electroporation Therapy (EPT) to deliver drugs and genes into cells. We are developing and commercializing novel medical therapies to address a number of critical unmet treatment needs using EPT. Our MedPulser System is in late stage development in the United States for the treatment of head and neck cancer. This system delivers electrical pulses to tumors injected with the generic drug bleomycin. The unique feature of the system, which uses a generator together with disposable needle applicators, is the preservation of healthy tissue at the margins of the tumor. We believe this may afford distinct advantages over surgery in preserving function and improving the quality of life for cancer patients who would otherwise face significant morbidity associated with cancer surgery. We believe that the planned commercial launch of our CE certified MedPulser System in Europe in 2005 represents an important milestone for us. We have also been developing devices for the delivery of DNA for DNA vaccinations and gene therapy. We believe that through our research efforts and those of our corporate partners, that we will soon execute the first clinical study involving the use of EPT with DNA involving human patients. We believe that our compelling asset base of intellectual property and scientific and engineering accomplishments, combined with clinical results position us as a leader in EPT.

The primary front line treatment of solid tumors involves surgical resection and/or radiation to debulk and control tumor growth prior to initiating systemic therapy with chemotherapeutic agents. Because surgeons often cannot distinguish the border, or margins, between healthy and diseased tissue, they will often resect an area outside of the obvious tumor mass. This can result in the loss of function and appearance of the surrounding tissues and organs, reducing the patient's quality of life. Examples include the loss of speech from resection of tumors on the tongue and larynx or loss of erectile function from resection of the prostate. Recent advances in non-surgical forms of tumor ablation, such as cryoablation, microwave or high frequency radio ablation therapy, fail to meet clinical needs in preserving normal healthy tissue. Given the desire for improved outcomes in the surgical resection of a large number of solid tumors such as head and neck, cutaneous, pancreatic, breast and prostate cancer, we believe that there will be significant demand for its technology from surgical oncologists.

We believe that attempts to pioneer new therapies based on DNA have been hampered by the use of viral vectors to deliver DNA. In addition to safety issues, viral vectors are difficult and expensive to manufacture. Because electroporation has proven efficient and safe in animal experiments, we are developing a MedPulser DNA Delivery System. By engineering different applicators, we can deliver DNA to the muscle, skin or vasculature. This should facilitate attempts to use DNA for therapies ranging from vaccination to gene therapy of single or multiple gene defects, including cancer and vascular diseases. As with our oncology program, we believe that our efforts in DNA delivery position us as a leader in the field.

We were organized as Genetronics Biomedical Ltd., a British Columbia corporation and reincorporated in Delaware on June 15, 2001, at which time we changed our name to Genetronics Biomedical Corporation. All of our business activities is conducted through Genetronics, Inc., a California corporation.

All periods presented in the consolidated financial statements and notes thereto that appear in this prospectus or in the documents incorporated herein by reference have been restated to financial statements prepared in accordance with accounting principles generally accepted in the United States. ALL DOLLAR AMOUNTS SET FORTH IN THIS PROSPECTUS AND IN THE DOCUMENTS INCORPORATED HEREIN BY REFERENCE ARE STATED IN UNITED STATES DOLLARS, EXCEPT WHERE OTHERWISE INDICATED.

Our principal executive offices are located at 11199 Sorrento Valley Road, San Diego, California 92121, and our telephone number is (858) 597-6006.

Recent Developments

On January 20, 2004, we announced that we have been granted two new U.S. patents. The first patent includes claims to novel, less severe methods for delivering an agent, such as a drug or polynucleotide, into a cell. We believe that this patent enhances the intellectual property for the oncology, gene therapy and DNA vaccine applications of electroporation. The second patent includes claims to methods for reducing changes in target muscle tissue from the application of an electric field, the key elements including electric pulsing parameters. We believe this patent has applicability in the field of gene therapy and DNA vaccines.

On February 4, 2004, we announced that we have entered into an agreement with RMR Technologies, LLC ("RMR"), to permit us to commercialize RMR's electroporation methods and devices on a worldwide exclusive basis. This extends a long-standing relationship with University of South Florida scientists and RMR founders Drs. Richard Heller, Mark Jaroszeski, and Richard Gilbert, dating back to the co-development of our CE marked MedPulser technology for the treatment of solid malignant tumors including head and neck cancers.

During the first quarter of 2004, we initiated two Phase III head and neck clinical trials, which will include sites in the United States and Europe. On February 23, 2004, we announced that we have completed the Special Protocol Assessment review process with the FDA for the two Phase III pivotal studies to evaluate the use of our MedPulser® Electroporation Therapy System as a treatment for recurrent and second primary squamous cell carcinomas of the head and neck (SCCHN). Three Institutional Review Boards (IRBs) in the U.S. have approved the two protocols to date, and we have initiated patient enrollment. These trials compare EPT to surgery using a primary endpoint of function preservation and secondary endpoints of local tumor control, disease-free survival and overall survival. Shifting from a primary endpoint of survival to a quality of life outcome allows us to carry out clinical trials that we expect may be faster, less costly and have a higher likelihood of success. As a result, our previously announced Phase III head and neck trials focusing on survival as a primary endpoint have been discontinued.

On March 1, 2004, we announced that we have begun treating patients with primary or recurrent squamous cell carcinoma of the head and neck (SCCHN) in a post European regulatory approval clinical study. The clinical study is designed to support the commercialization of our MedPulser® Electroporation System in the European Union (EU). The European clinical study will facilitate adoption of the technology by thought leaders and allow us to apply for reimbursement. Prior clinical trials established the safety and performance of the MedPulser® System for the treatment of SCCHN, leading to approval for sale in the EU based on achieving the CE Mark.

On March 9, 2004, we announced the selection of Quintiles Transnational Corp., a leading global pharmaceutical services organization, as the clinical research organization (CRO) for our clinical trials in the U.S. and Europe for the treatment of head and neck cancer.

On May 21, 2004, we issued a press release announcing that we had raised an aggregate of \$10.9 million after completing the sale of our Series C Cumulative Convertible Preferred Stock to

certain institutional and accredited investors. The Series C Preferred Stock is convertible into shares of our common stock at \$1.70 per share. Each investor received warrants to purchase shares of our common stock in an amount equal to 35% of the number of shares of common stock underlying the Series C Preferred Stock at a per share exercise price of \$2.20.

On May 24, 2004, we issued a press release announcing that we had entered into a collaboration and licensing agreement with Merck & Co., Inc. to develop and commercialize our MedPulser® DNA Delivery System, which will be used with Merck's DNA vaccine programs. Under the terms of the agreement, Merck receives the right to use our proprietary technology initially for two specific antigens with an option to extend the agreement to additional antigens. We will receive an upfront payment as well as milestone payments linked to the successful development of a product.

On June 7, 2004, we issued a press release announcing that the U.S. Food and Drug Administration has granted us a fast track designation for our MedPulser Electroporation System clinical development program for patients with head and neck cancer. We are currently conducting two Phase III pivotal studies comparing the MedPulser System in combination with the cancer drug, bleomycin, versus surgical resection in patients with recurrent or second primary squamous cell carcinoma head and neck cancer. The fast track designation is intended to facilitate development and expedite the review of new therapies that are intended to treat serious or life-threatening conditions and demonstrate the potential to address unmet medical needs so that an approved product can reach the market expeditiously.

Special Note on Forward Looking Statements

This prospectus and the documents and information incorporated by reference in this prospectus, such as from Item 1. "Business" and Item 7. "Management's Discussion and Analysis of Financial Condition and Results of Operations in our Annual Report on Form 10-K for the year ended December 31, 2003, include "forward-looking statements" within the meaning of section 27A of the Securities Act of 1933, as amended and section 21E of the Securities Exchange Act of 1934, as amended. Forward-looking statements include the information concerning our possible or assumed future operating results, business strategies, financing plans, competitive position, industry environment, the anticipated impact on our business and financial results of recent and future acquisitions, the effects of competition, our ability to produce new products in a cost-effective manner and estimates relating to our industry. Forward-looking statements may be identified by the use of words like "believes," "intends," "expects," "may," "will," "should" or "anticipates," or the negative equivalents of those words or comparable terminology, and by discussions of strategies that involve risks and uncertainties.

Actual results may differ materially from those expressed or implied by forward-looking statements for a number of reasons, including those appearing elsewhere in this prospectus under the heading "Risk Factors." In addition, we base forward-looking statements on assumptions about future events, which may not prove to be accurate. In light of these risks, uncertainties and assumptions, you should be aware that the forward-looking events described in this prospectus and the documents incorporated by reference in this prospectus may not occur.

Risk Factors

You should carefully consider and evaluate all of the information contained or incorporated by reference in this prospectus, including the following risk factors, before deciding to invest in our notes. Any of these risks could materially and adversely affect our business, financial condition and results of operations, which in turn could adversely affect the price of the notes and our common stock.

WE HAVE OPERATED AT A LOSS AND WE EXPECT TO CONTINUE TO ACCUMULATE A DEFICIT.

As of March 31, 2004, we had a deficit of \$77,881,756. We have operated at a loss since 1994, and we expect this to continue for some time. The amount of our accumulated deficit will continue to grow, as it will be expensive to continue our clinical, research, and development efforts as well as our product launch in Europe. If these activities are successful, and if we receive approval from the FDA to market human-use equipment, then even more funding will be required to market and sell the equipment in the U.S.

The cash we received during the last twelve months, came from the sale of our BTX Division, exercise of employee stock options and investor warrants, and the sale of preferred stock. Other funds came from collaborative research arrangements and interest income on our investments. On July 16, 2003, we announced that we had raised an aggregate of \$15,670,000, through the sale of \$8,170,000 of our Series A Cumulative Convertible Preferred Stock and \$7,500,000 of our Series B Cumulative Convertible Preferred Stock, to institutional and accredited investors. All proceeds from the sale of Series A Cumulative Convertible Preferred Stock were received on July 16, 2003. The proceeds from the sale of the Series B Preferred Stock remained in escrow to be released to us upon the achievement of specific milestones. In October 2003, we achieved these milestones and the \$7,500,000 was released to us. On May 21, 2004, we announced that we had raised an aggregate of \$10,900,000, through the sale of our Series C Cumulative Convertible Preferred Stock, to institutional and accredited investors. All proceeds from the sale of Series C Cumulative Convertible Preferred Stock were received on May 21, 2004. Including the cash proceeds received from the July 2003 financing, the exercise of employee stock options and investor warrants, and the sale of the BTX Division, we believe, based on our expected burn rate, we have sufficient funds to fund operations through August 2006.

WE WILL HAVE A NEED FOR SIGNIFICANT FUNDS IN THE FUTURE AND THERE IS NO GUARANTEE THAT WE WILL BE ABLE TO OBTAIN THE FUNDS WE NEED.

As discussed, we have operated at a loss, and expect that to continue for some time in the future. Our plans for continuing clinical trials, conducting research, furthering development and, eventually, marketing our human-use equipment will involve substantial costs. The extent of these costs will depend on many factors, including some of the following:

The progress and breadth of preclinical testing and the size of our drug delivery programs, all of which directly influence cost;

The costs involved in complying with the regulatory process to get our human-use products approved, including the number, size, and timing of necessary clinical trials and costs associated with the current assembly and review of existing clinical and pre-clinical information;

The costs involved in patenting our technologies and defending them;

Changes in our existing research and development relationships and our ability to enter into new agreements;

The cost of manufacturing our human-use equipment; and

Competition for our products and our ability, and that of our partners, to commercialize our products.

We plan to fund operations by several means. We will attempt to enter into contracts with partners that will fund either general operating expenses or specific programs or projects. Some funding also may be received through government grants. We cannot promise that we will enter into any such contracts or receive such grants or, if we do, that our partners and the grants will provide enough funding to meet our needs.

In the past, we have raised funds by public and private sale of our stock, and we are likely to do this in the future to raise needed funds. Sale of our stock to new private or public investors usually results in existing stockholders becoming "diluted". The greater the number of shares sold, the greater the dilution. A high degree of dilution can make it difficult for the price of our stock to rise rapidly, among other things. Dilution also lessens a stockholder's voting power.

We cannot assure you that we will be able to raise capital needed to fund operations, or that we will be able to raise capital under terms that are favorable to us.

IF WE DO NOT HAVE ENOUGH CAPITAL TO FUND OPERATIONS, THEN WE WILL HAVE TO CUT COSTS.

If we are not able to raise needed money under acceptable terms, then we will have to take measures to cut costs, such as:

Delay, scale back or discontinue one or more of our drug or gene delivery programs or other aspects of operations, including laying off some personnel or stopping or delaying clinical trials;

Sell or license some of our technologies that we would not otherwise give up if we were in a better financial position;

Sell or license some of our technologies under terms that are a lot less favorable than they otherwise might have been if we were in a better financial position; and

Consider merging with another company or positioning ourself to be acquired by another company.

If it became necessary to take one or more of the above-listed actions, then we may have a lower valuation, which probably would be reflected in our stock price.

IF WE ARE NOT SUCCESSFUL DEVELOPING OUR CURRENT PRODUCTS, OUR BUSINESS MODEL MAY CHANGE AS OUR PRIORITIES AND OPPORTUNITIES CHANGE. OUR BUSINESS MAY NEVER DEVELOP TO BE PROFITABLE OR SUSTAINABLE.

There are many products and programs that to us seem promising and that we could pursue. However, with limited resources, we may decide to change priorities and shift programs away from those that we had been pursuing for the purpose of exploiting our core technology of electroporation. The choices we may make will be dependent upon numerous factors, which we cannot predict. We cannot assure you that our business model, as it currently exists or as it may evolve, will enable us to become profitable or to sustain operations.

IF WE DO NOT SUCCESSFULLY COMMERCIALIZE PRODUCTS, THEN OUR BUSINESS WILL SUFFER.

We have received various regulatory approvals, which apply to Europe for our equipment for use in treating solid tumors, the products related to such regulatory approval have not yet been commercialized. In addition, we have not yet received any regulatory approvals to sell our clinical

products in the United States and further clinical trials are still necessary before we can seek regulatory approval to sell our products in the United States for treating solid tumors. We cannot assure you that we will successfully develop any products. If we fail to develop or successfully commercialize any products, then our business will suffer. Additionally, much of the commercialization efforts for our products must be carried forward by a licensing partner. We may not be able to obtain such a partner.

PRE-CLINICAL AND CLINICAL TRIALS OF HUMAN-USE EQUIPMENT ARE UNPREDICTABLE. IF WE EXPERIENCE UNSUCCESSFUL TRIAL RESULTS OUR BUSINESS WILL SUFFER.

Before any of our human-use equipment can be sold, the Food and Drug Administration (FDA) or applicable foreign regulatory authorities must determine that the equipment meets specified criteria for use in the indications for which approval is requested. The FDA will make this determination based on the results from our pre-clinical testing and clinical trials.

Clinical trials are unpredictable, especially human-use trials. Results achieved in early stage clinical trials may not be repeated in later stage trials, or in trials with more patients. When early positive results were not repeated in later stage trials, pharmaceutical and biotechnology companies have suffered significant setbacks. Not only are commercialization timelines pushed back, but some companies, particularly smaller biotechnology companies with limited cash reserves, have gone out of business after releasing news of unsuccessful clinical trial results.

If we experience unexpected, inconsistent or disappointing results in connection with a clinical or pre-clinical trial our business will suffer. If any of the following events arise during our clinical trials or data review, then we would expect this to have a serious negative effect on our company and your investment:

The electroporation-mediated delivery of drugs or other agents may be found to be ineffective or to cause harmful side effects, including death;

Our clinical trials may take longer than anticipated, for any of a number of reasons including a scarcity of subjects that meet the physiological or pathological criteria for entry into the study, a scarcity of subjects that are willing to participate through the end of the trial, or data and document review;

The reported clinical data may change over time as a result of the continuing evaluation of patients or the current assembly and review of existing clinical and pre-clinical information;

Data from various sites participating in the clinical trials may be incomplete or unreliable, which could result in the need to repeat the trial or abandon the project; and

The FDA and other regulatory authorities may interpret our data differently than we do, which may delay or deny approval.

Clinical trials are generally quite expensive. A delay in our trials, for whatever reason, will probably require us to spend additional funds to keep the product(s) moving through the regulatory process. If we do not have or cannot raise the needed funds, then the testing of our human-use products could be shelved. In the event the clinical trials are not successful, we will have to determine whether to put more money into the program to address its deficiencies or whether to abandon the clinical development programs for the products in the tested indications. Loss of the human-use product line would be a significant setback for our company.

Because there are so many variables inherent in clinical trials, we cannot predict whether any of our future regulatory applications to conduct clinical trials will be approved by the FDA or other regulatory authorities, whether our clinical trials will commence or proceed as planned, and whether the trials will ultimately be deemed to be successful. To date, our experience has been that submission and approval of clinical protocols has taken longer than desired or expected.

OUR BUSINESS IS HIGHLY DEPENDENT ON RECEIVING APPROVALS FROM VARIOUS UNITED STATES AND INTERNATIONAL GOVERNMENT AGENCIES AND WILL BE DRAMATICALLY AFFECTED IF APPROVAL TO MANUFACTURE AND SELL OUR HUMAN-USE EQUIPMENT IS NOT GRANTED OR IS NOT GRANTED IN A TIMELY MANNER.

The production and marketing of our human-use equipment and the ongoing research, development, preclinical testing, and clinical trial activities are subject to extensive regulation. Numerous governmental agencies in the US and internationally, including the FDA, must review our applications and decide whether to grant approval. All of our human-use equipment must go through an approval process, in some instances for each indication for which we want to label it for use (such as use for dermatology, use for transfer of a certain gene to a certain tissue, or use for administering a certain drug to a certain tumor type in a patient having certain characteristics). These regulatory processes are extensive and involve substantial costs and time.

We have limited experience in, and limited resources available for, regulatory activities. Failure to comply with applicable regulations can, among other things, result in non-approval, suspensions of regulatory approvals, fines, product seizures and recalls, operating restrictions, injunctions and criminal prosecution.

Any of the following events can occur and, if any did occur, any one could have a material adverse effect on our business, financial conditions and results of operations:

As mentioned earlier, clinical trials may not yield sufficiently conclusive results for regulatory agencies to approve the use of our products;

There can be delays, sometimes long, in obtaining approval for our human-use devices, and indeed, we have experienced such delays in obtaining FDA approval of our clinical protocols;

The rules and regulations governing human-use equipment such as ours can change during the review process, which can result in the need to spend time and money for further testing or review;

If approval for commercialization is granted, it is possible the authorized use will be more limited than we believe is necessary for commercial success, or that approval may be conditioned on completion of further clinical trials or other activities; and

Once granted, approval can be withdrawn, or limited, if previously unknown problems arise with our human-use product or data arising from its use.

WE RELY ON COLLABORATIVE AND LICENSING RELATIONSHIPS TO FUND A PORTION OF OUR RESEARCH AND DEVELOPMENT EXPENSES. IF WE ARE UNABLE TO MAINTAIN OR EXPAND EXISTING RELATIONSHIPS, OR INITIATE NEW RELATIONSHIPS, WE WILL HAVE TO DEFER OR CURTAIL RESEARCH AND DEVELOPMENT ACTIVITIES IN ONE OR MORE AREAS.

Our partners and collaborators fund a portion of our research and development expenses and assist us in the research and development of our human-use equipment. These collaborations and partnerships can help pay the salaries and other overhead expenses related to research. Our largest partner at this time is Valentis, Inc. In November 2001, we entered into a non-exclusive license and supply agreement with Valentis, whereby Valentis obtained rights to use our electroporation technology in the development of certain GeneMedicine products. In the past, we encountered operational difficulties after the termination of a similar agreement by a former partner. Because this partnership was terminated, we did not receive significant milestone payments which we had expected and were forced to delay some clinical trials as well as some product development. The Valentis partnership is not of the same size and scope and termination of the Valentis partnership would not present operational difficulties.

Our clinical trials to date have used our equipment with the anti-cancer drug bleomycin. We do not currently intend to package bleomycin together with the equipment for sale, but if it should be necessary or desirable to do this, we would need a reliable source of the drug. We signed a supply agreement with Abbott Laboratories under which Abbott would sell us bleomycin for inclusion in our package. If it becomes necessary or desirable to include bleomycin in our package, and this relationship with Abbott should be terminated, then we would have to form a relationship with another provider of this generic drug before any product could be launched.

We also rely on scientific collaborators at companies and universities to further our research and test our equipment. In most cases, we lend our equipment to a collaborator, teach him or her how to use it, and together design experiments to test the equipment in one of the collaborator's fields of expertise. We aim to secure agreements that restrict collaborators' rights to use the equipment outside of the agreed upon research, and outline the rights each of us will have in any results or inventions arising from the work.

Nevertheless, there is always risk that:

Our equipment will be used in ways we did not authorize, which can lead to liability and unwanted competition;

We may determine that our technology has been improperly assigned to us or a collaborator may claim rights to certain of our technology, which may require us to pay license fees or milestone payments and, if commercial sales of the underlying product is achieved, royalties;

We may lose rights to inventions made by our collaborators in the field of our business, which can lead to expensive legal fights and unwanted competition;

Our collaborators may not keep our confidential information to themselves, which can lead to loss of our right to seek patent protection and loss of trade secrets, and expensive legal fights; and

Collaborative associations can damage a company's reputation if they go awry and thus, by association or otherwise, the scientific or medical community may develop a negative view of us.

We cannot guarantee that any of the results from these collaborations will be fruitful. We also cannot tell you that we will be able to continue to collaborate with individuals and institutions that will further our work, or that we will be able to do so under terms that are not too restrictive. If we are not able to maintain or develop new collaborative relationships, then it is likely the research pace will slow down and it will take longer to identify and commercialize new products, or new indications for our existing products.

WE COULD BE SUBSTANTIALLY DAMAGED IF PHYSICIANS AND HOSPITALS PERFORMING OUR CLINICAL TRIALS DO NOT ADHERE TO PROTOCOLS OR PROMISES MADE IN CLINICAL TRIAL AGREEMENTS.

We work and have worked with a number of hospitals to perform clinical trials, primarily in oncology. We depend on these hospitals to recruit patients for the trials, to perform the trials according to our protocols, and to report the results in a thorough, accurate and consistent fashion. Although we have agreements with these hospitals, which govern what each party is to do with respect to the protocol, patient safety, and avoidance of conflict of interest, there are risks that the terms of the contracts will not be followed, such as the following:

Risk of Deviations from Protocol. The hospitals or the physicians working at the hospitals may not perform the trial correctly. Deviations from protocol may make the clinical data not useful and the trial could be essentially worthless.

Risk of Improper Conflict of Interest. Physicians working on protocols may have an improper economic interest in our company, or other conflict of interest. When a physician has a personal stake in the success of the trial, such as can be inferred if the physician owns stock, or rights to purchase stock, of the trial sponsor, it can create suspicion that the trial results were improperly influenced by the physician's interest in economic gain. Not only can this put the clinical trial results at risk, but it can also do serious damage to a company's reputation.

Risks Involving Patient Safety and Consent. Physicians and hospitals may fail to secure formal written consent as instructed or report adverse effects that arise during the trial in the proper manner, which could put patients at unnecessary risk. Physicians and hospital staff may fail to observe proper safety measures such as the mishandling of used medical needles, which may result in the transmission of infectious and deadly diseases, such as HIV and AIDS. This increases our liability, affects the data, and can damage our reputation.

If any of these events were to occur, then it could have a material adverse effect on our ability to receive regulatory authorization to sell our human-use equipment, not to mention on our reputation. Negative events that arise in the performance of clinical trials sponsored by biotechnology companies of our size and with limited cash reserves similar to ours have resulted in companies going out of business. While these risks are ever present, to date our contracted physicians and clinics have been successful in collecting significant data regarding the clinical protocols under which they have operated, and we are unaware of any conflicts of interest or improprieties regarding our protocols.

WE RELY HEAVILY ON OUR PATENTS AND PROPRIETARY RIGHTS TO ATTRACT PARTNERSHIPS AND MAINTAIN MARKET POSITION.

Another factor that will influence our success is the strength of our patent portfolio. Patents give the patent holder the right to prevent others from using its patented technology. If someone infringes upon the patented material of a patent holder, then the patent holder has the right to initiate legal proceedings against that person to protect the patented material. These proceedings, however, can be lengthy and costly. We are in the process of performing an ongoing review of our patent portfolio to confirm that our key technologies are adequately protected. If we determine that any of our patents require either additional disclosures or revisions to existing information, we may ask that such patents be reexamined or reissued, as applicable, by the United States patent office.

The patenting process, enforcement of issued patents, and defense against claims of infringement are inherently risky. Because we rely heavily on patent protection, for us the risks are significant and include the following:

Risk of Inadequate Patent Protection for Product. The United States or foreign patent offices may not grant patents of meaningful scope based on the applications we have already filed and those we intend to file. If we do not have patents that adequately protect our human-use equipment and indications for its use, then we will not be competitive.

Risk That Important Patents Will Be Judged Invalid. Some of the issued patents we now own or license may be determined to be invalid. If we have to defend the validity of any of our patents, the costs of such defense could be substantial, and there is no guarantee of a successful outcome. In the event an important patent related to our drug delivery technology is found to be invalid, we may lose competitive position and may not be able to receive royalties for products covered in part or whole by that patent under license agreements.

Risk of Being Charged With Infringement. Although we and our partners try to avoid infringement, there is the risk that we will use a patented technology owned by another person and/or be charged with infringement. Defending or indemnifying a third party against a charge of infringement can involve lengthy and costly legal actions, and there can be no guarantee of a successful outcome. Biotechnology

companies of roughly our size and financial position have gone out of business after fighting and losing an infringement battle. If we or our partners were prevented from using or selling our human-use equipment, then our business would be seriously affected.

Freedom to Operate Risks. We are aware that patents related to electrically assisted drug delivery have been granted to, and patent applications filed by, our potential competitors. We or our partners have taken licenses to some of these patents, and will consider taking additional licenses in the future. Nevertheless, the competitive nature of our field of business and the fact that others have sought patent protection for technologies similar to ours make these significant risks.

In addition to patents, we also rely on trade secrets and proprietary know-how. We try to protect this information with appropriate confidentiality and inventions agreements with our employees, scientific advisors, consultants, and collaborators. We cannot assure you that these agreements will not be breached, that we will be able to do much to protect ourselves if they are breached, or that our trade secrets will not otherwise become known or be independently discovered by competitors. If any of these events occurs, then we run the risk of losing control over valuable company information, which could negatively affect our competitive position.

WE RUN THE RISK THAT OUR TECHNOLOGY WILL BECOME OBSOLETE OR LOSE ITS COMPETITIVE ADVANTAGE.

The drug delivery business is very competitive, fast moving and intense, and expected to be increasingly so in the future. Other companies and research institutions are developing drug delivery systems that, if not similar in type to our systems, are designed to address the same patient or subject population. Therefore, we cannot promise you that our products will be the best, the safest, the first to market, or the most economical to make or use. If competitors' products are better than ours, for whatever reason, then we could make less money from sales and our products risk becoming obsolete.

There are many reasons why a competitor might be more successful than us, including:

Financial Resources. Some competitors have greater financial resources and can afford more technical and development setbacks than we can.

Greater Experience. Some competitors have been in the drug delivery business longer than we have. They have greater experience than us in critical areas like clinical testing, obtaining regulatory approval, and sales and marketing. This experience or their name recognition may give them a competitive advantage over us.

Superior Patent Position. Some competitors may have a better patent position protecting their technology than we have or will have to protect our technology. If we cannot use our patents to prevent others from copying our technology or developing similar technology, or if we cannot obtain a critical license to another's patent that we need to make and use our equipment, then we would expect our competitive position to lessen. However, we feel that our patent position adequately protects our technology portfolio.

Faster to Market. Some companies with competitive technologies may move through stages of development, approval, and marketing faster than us. If a competitor receives FDA approval before us, then it will be authorized to sell its products before we can sell ours. Because the first company "to market" often has a significant advantage over late-comers, a second place position could result in less than anticipated sales.

Reimbursement Allowed. In the United States, third party payers, such as Medicare, may reimburse physicians and hospitals for competitors' products but not for our human-use products. This would significantly affect our ability to sell our human-use products in the United States and would have a serious effect on revenues and our business as a whole. Outside of the United States, reimbursement and funding policies vary widely.

OUR ABILITY TO ACHIEVE SIGNIFICANT REVENUE FROM SALES OR LEASES OF HUMAN-USE EQUIPMENT WILL DEPEND ON ESTABLISHING EFFECTIVE SALES, MARKETING AND DISTRIBUTION CAPABILITIES OR RELATIONSHIPS AND WE LACK SUBSTANTIAL EXPERIENCE IN THESE AREAS.

We have no experience in sales, marketing and distribution of clinical and human-use products. If we want to be direct distributors of the human-use products, then we must develop a marketing and sales force. This would involve substantial costs, training, and time. Alternatively, we may decide to rely on a company with a large distribution system and a large direct sales force to undertake the majority of these activities on our behalf. This route could result in less profit for us, but may permit us to reach market faster. In any event, we may not be able to undertake this effort on our own, or contract with another to do this at a reasonable cost. Regardless of the route we take, we may not be able to successfully commercialize any product.

THE MARKET FOR OUR STOCK IS VOLATILE, WHICH COULD ADVERSELY AFFECT AN INVESTMENT IN OUR STOCK.

Our share price and volume are highly volatile. This is not unusual for biomedical companies of our size, age, and with a discrete market niche. It also is common for the trading volume and price of biotechnology stocks to be unrelated to a company's operations, i.e. to go up or down on positive news and to go up or down on no news. Our stock has exhibited this type of behavior in the past, and may well exhibit it in the future. The historically low trading volume of our stock, in relation to many other biomedical companies of about our size, makes it more likely that a severe fluctuation in volume, either up or down, will affect the stock price.

Some factors that we would expect to depress the price of our stock include:

Adverse clinical trial results;

Our inability to obtain additional capital;

Announcement that the FDA denied our request to approve our human-use product for commercialization in the United States, or similar denial by other regulatory bodies which make independent decisions outside the United States. To date, Europe is the only foreign jurisdiction in which we have sought approval for commercialization;

Announcement of legal actions brought by or filed against us for patent or other matters, especially if we do not win such actions;

Cancellation of important corporate partnerships or agreements;

Public concern as to the safety or efficacy of our human-use products including public perceptions regarding gene therapy in general;

Stockholders' decisions, for whatever reasons, to sell large amounts of our stock;

Adverse research and development results;

Declining working capital to fund operations, or other signs of apparent financial uncertainty; and

Significant advances made by competitors that are perceived to limit our market position.

ECONOMIC, POLITICAL, MILITARY OR OTHER EVENTS IN THE UNITED STATES OR IN OTHER COUNTRIES COULD INTERFERE WITH OUR SUCCESS OR OPERATIONS AND HARM OUR BUSINESS

The September 11, 2001 terrorist attacks disrupted commerce throughout the United States and other parts of the world. The continued threat of similar attacks throughout the world and the military action taken by the United States and other nations in Iraq or other countries may cause significant disruption to commerce throughout the world. To the extent that such disruptions further slow the global economy, our business and results of operations could be materially adversely affected. We are unable to predict whether the threat of new attacks or the responses thereto will result in any long-term commercial disruptions or if such activities or responses will have a long-term material adverse effect on our business, results of operations or financial condition.

OUR DEPENDENCE UPON NON-MARKETED PRODUCTS, LACK OF EXPERIENCE IN MANUFACTURING AND MARKETING HUMAN-USE PRODUCTS, AND OUR CONTINUING DEFICIT MAY RESULT IN EVEN FURTHER FLUCTUATIONS IN OUR TRADING VOLUME AND SHARE PRICE.

Successful approval, marketing, and sales of our human-use equipment are critical to the financial future of our company. Our human-use products are not yet approved for sale in the United States and some other jurisdictions and we may never obtain those approvals. Even if we do obtain approvals to sell our human-use products in the United States, those sales may not be as large or timely as we expect. These uncertainties may cause our operating results to fluctuate dramatically in the next several years. We believe that quarter-to-quarter or annual comparisons of our operating results are not a good indication of our future performance. Nevertheless, these fluctuations may cause us to perform below the expectations of the public market analysts and investors. If this happens, the price of our common shares would likely fall.

THERE IS A RISK OF PRODUCT LIABILITY WITH HUMAN-USE EQUIPMENT

The testing, marketing and sale of human-use products expose us to significant and unpredictable risks of equipment product liability claims. These claims may arise from patients, clinical trial volunteers, consumers, physicians, hospitals, companies, institutions, researchers or others using, selling, or buying our equipment. Product liability risks are inherent in our business and will exist even after the products are approved for sale. If and when our human-use equipment is commercialized, we run the risk that use (or misuse) of the equipment will result in personal injury. The chance of such an occurrence will increase after a product type is on the market.

We possess liability insurance in connection with ongoing business and products, and we will purchase additional policies if such policies are determined by management to be necessary. The insurance we purchase may not provide adequate coverage in the event a claim is made, however, and we may be required to pay claims directly. If we did have to make payment against a claim, then it would impact our financial ability to perform the research, development, and sales activities we have planned.

If and when our human-use equipment is commercialized, there is always the risk of product defects. Product defects can lead to loss of future sales, decrease in market acceptance, damage to our brand or reputation, and product returns and warranty costs. These events can occur whether the defect resides in a component we purchased from a third party or whether it was due to our design and/or manufacture. We expect that our sales agreements will contain provisions designed to limit our exposure to product liability claims. However, we do not know whether these limitations are enforceable in the countries in which the sale is made. Any product liability or other claim brought

against us, if successful and of sufficient magnitude, could negatively impact our financial performance, even if we have insurance.

WE CANNOT BE CERTAIN THAT WE WILL BE ABLE TO MANUFACTURE OUR HUMAN-USE EQUIPMENT IN SUFFICIENT VOLUMES AT COMMERCIALY REASONABLE RATES.

Our manufacturing facilities for human-use products will be subject to quality systems regulations, international quality standards and other regulatory requirements, including pre-approval inspection for the human-use equipment and periodic post-approval inspections for all human-use products. While we have undergone and passed a quality systems review from an international body, we have never undergone a quality systems inspection by the FDA. We may not be able to pass an FDA inspection when it occurs. If our facilities are not up to the FDA standards in sufficient time, prior to United States launch of product, then it will result in a delay or termination of our ability to produce the human-use equipment in our facility. Any delay in production will have a negative effect on our business. There are no immediate dates set forth for launch of our products in the United States. We plan on launching these products once we successfully perform a Phase III clinical study, obtain the requisite regulatory approval, and engage a partner who has the financial resources and marketing capacity to bring our products to market.

Our products must be manufactured in sufficient commercial quantities, in compliance with regulatory requirements, and at an acceptable cost to be attractive to purchasers. We rely on third parties to manufacture and assemble most aspects of our equipment.

Disruption of the manufacture of our products, for whatever reason, could delay or interrupt our ability to manufacture or deliver our products to customers on a timely basis. This would be expected to affect revenues and may affect our long-term reputation, as well. In the event we provide product of inferior quality, we run the risk of product liability claims and warranty obligations, which will negatively affect our financial performance.

WE DEPEND ON THE CONTINUED EMPLOYMENT OF QUALIFIED PERSONNEL.

Our success is highly dependent on the people who work for us. If we cannot attract and retain top talent to work in our company, then our business will suffer. Our staff may not decide to stay with our company, and we may not be able to replace departing employees or build departments with qualified individuals.

We have an employment agreement in place for Avtar Dhillon, our President and Chief Executive Officer. If Mr. Dhillon leaves us, that might pose significant risks to our continued development and progress. Our progress may also be curtailed if Dietmar Rabussay, Ph.D., our Vice President of Research and Development, were to leave us.

WE MAY NOT MEET ENVIRONMENTAL GUIDELINES AND AS A RESULT COULD BE SUBJECT TO CIVIL AND CRIMINAL PENALTIES.

Like all companies in our line of work, we are subject to a variety of governmental regulations relating to the use, storage, discharge and disposal of hazardous substances. Our safety procedures for handling, storage and disposal of such materials are designed to comply with applicable laws and regulations. Nevertheless, if we are found to not comply with environmental regulations, or if we are involved with contamination or injury from these materials, then we may be subject to civil and criminal penalties. This would have a negative impact on our reputation, our finances, and could result in a slowdown, or even complete cessation of our business.

OUR FACILITIES ARE LOCATED NEAR KNOWN EARTHQUAKE FAULT ZONES, AND THE OCCURRENCE OF AN EARTHQUAKE OR OTHER CATASTROPHIC DISASTER COULD CAUSE DAMAGE TO OUR FACILITIES AND EQUIPMENT.

Our facilities are located near known earthquake fault zones and are vulnerable to damage from earthquakes. We are also vulnerable to damage from other types of disasters, including fire, floods, power loss, communications failures and similar events. If any disaster were to occur, our ability to operate our business at our facilities would be seriously impaired. In addition, the unique nature of our research activities could cause significant delays in our programs and make it difficult for us to recover from a disaster. The insurance we maintain may not be adequate to cover our losses resulting from disasters or other business interruptions. Accordingly, an earthquake or other disaster could materially and adversely harm our ability to conduct business.

Additional or Updated Risk Factors

Prior to making an investment decision with respect to the common stock offered hereby, prospective investors should also carefully consider any specific factors set forth under a caption "risk factors" in the applicable prospectus supplement, together with all of the other information appearing in this prospectus or the prospectus supplement or incorporated by reference into this prospectus.

Use of Proceeds

We will not receive any proceeds from the sale by any selling stockholder of the 9,267,013 shares of our common stock being offered in this prospectus. If the warrants that were issued to the selling stockholders to purchase 2,854,471 shares of our common stock are exercised, we will receive estimated proceeds of \$5,975,000, which would be used to offset the approximately \$140,000 of expenses, which we have agreed to bear, that relate to the registration of the shares being offered and sold by the selling stockholders, including the SEC registration fee and legal, accounting, printing and other expenses of this offering.

Selling Stockholders

We originally sold and issued shares of Series C preferred stock that are convertible into shares of our common stock and warrants to purchase shares of our common stock, pursuant to transactions exempt from registration under the Securities Act of 1933. Selling stockholders may convert the Series C preferred stock into shares of our common stock and/or exercise the warrants to purchase shares of our common stock. The shares of common stock are being registered to permit public sales of the shares, and the selling stockholders may offer the shares for resale from time to time pursuant to this prospectus.

The following table sets forth certain information regarding the selling stockholders and the shares offered by them in this prospectus. Beneficial ownership is determined in accordance with the rules of the Securities and Exchange Commission. In computing the number of shares beneficially owned by a person and the percentage of ownership of that person, shares of common stock underlying shares of convertible preferred stock, options or warrants held by that person that are convertible or exercisable, as the case may be, within 60 days of June 15, 2004 are included. Those shares, however, are not deemed outstanding for the purpose of computing the percentage ownership of any other person. Each stockholder's percentage of ownership in the following table is based upon 70,313,459 shares of common stock outstanding as of June 15, 2004.

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None of the selling stockholders within the past three years has had any material relationship with us or any of our affiliates. The term "selling stockholders" also includes any transferees, pledges, donees, or other successors in interest to the selling stockholders named in the table below.

Selling Stockholder	Number of Shares of Common Stock Beneficially Owned Prior to Offering	Percentage of Shares of Common Stock Beneficially Owned Prior to the Offering	Number of Shares of Common Stock Registered for Sale Hereby	Number of Shares of Common Stock Beneficially Owned After Completion of the Offering(1)
Alpha Capital	198,529(2)	*	198,529	
BayStar Capital II, LP	3,916,093(3)	5.3%	2,382,352	1,533,741
Bridges and Pipes LLC	198,529(4)	*	198,529	
Kinetic Capital "TNT" Limited	2,404,234(5)	3.3%	277,941	2,126,293
Park Place Columbia Limited	800,224(6)	1.1%	103,235	696,989
Pharmaceutical Medical Tech Fund	397,058(7)	*	397,058	
Rennes Fondation	626,500(8)	*	318,600	307,900
SDS Capital Group SPC, Ltd.	2,404,339(9)	3.3%	1,588,235	816,104
SRG Capital, LLC	158,823(10)	*	158,823	
Stonestreet LP	397,058(11)	*	397,058	
Sunrise Partners Limited	397,058(12)	*	397,058	
William Kane Mahon	76,824(13)	*	23,824	53,000
Xmark Fund, LP	859,144(14)	1.2%	690,390	168,754
Xmark Fund, Ltd.	952,451(15)	1.3%	659,610	292,841
Qfinance, Inc.	4,052,035(16)	5.5%	865,693	3,186,342
SCO Capital Partners LLC	3,348,918(17)	4.5%	411,802	2,937,116
Jeffrey B. Davis	422,568(18)	*	122,016	300,552
Preston Tsao	96,705(19)	*	30,504	66,201
Daniel DiPietro	119,949(20)	*	30,504	89,445
Mark Alvino	15,252(21)	*	15,252	

*

Less than 1 percent.

- (1) Represents the amount of shares that will be held by the selling stockholders after completion of this offering based on the assumption that all shares registered for sale hereby will be sold. However, the selling stockholders may offer all, some or none of the shares pursuant to this prospectus, and to our knowledge there are currently no agreements, arrangements or understanding with respect to the sale of any of the shares that may be held by the selling stockholders after completion of this offering.
- (2) Represents 147,058 shares underlying Series C Preferred Stock and 51,471 shares underlying warrants that are convertible or exercisable, respectively, within 60 days.
- (3) Includes 1,764,705 shares underlying Series C Preferred Stock and 1,703,361 shares underlying warrants that are convertible or exercisable, respectively, within 60 days.
- (4) Represents 147,058 shares underlying Series C Preferred Stock and 51,471 shares underlying warrants that are convertible or exercisable, respectively, within 60 days.
- (5) Includes 1,250,000 shares underlying Series A Preferred Stock, 205,882 shares underlying Series C Preferred Stock and 572,058 shares underlying warrants that are convertible or exercisable, as the case may be, within 60 days.
- (6)

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Includes 216,667 shares underlying Series A Preferred Stock, 76,470 shares underlying Series C Preferred Stock and 113,432 shares underlying warrants that are convertible or exercisable, as the case may be, within 60 days.

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- (7) Represents 294,117 shares underlying Series C Preferred Stock and 102,941 shares underlying warrants that are convertible or exercisable, respectively, within 60 days.
- (8) Includes 236,000 shares underlying Series C Preferred Stock and 82,600 shares underlying warrants that are convertible or exercisable, respectively, within 60 days.
- (9) Includes 1,176,470 shares underlying Series C Preferred Stock and 1,135,575 shares underlying warrants that are convertible or exercisable, respectively, within 60 days.
- (10) Represents 117,647 shares underlying Series C Preferred Stock and 41,176 shares underlying warrants that are convertible or exercisable, respectively, within 60 days.
- (11) Represents 294,117 shares underlying Series C Preferred Stock and 102,941 shares underlying warrants that are convertible or exercisable, respectively, within 60 days.
- (12) Represents 294,117 shares underlying Series C Preferred Stock and 102,941 shares underlying warrants that are convertible or exercisable, respectively, within 60 days.
- (13) Includes 17,647 shares underlying Series C Preferred Stock and 6,176 shares underlying warrants that are convertible or exercisable, respectively, within 60 days.
- (14) Represents 511,400 shares underlying Series C Preferred Stock and 341,847 shares underlying warrants that are convertible or exercisable, respectively, within 60 days.
- (15) Includes 488,600 shares underlying Series C Preferred Stock and 460,534 shares underlying warrants that are convertible or exercisable, respectively, within 60 days.
- (16) Represents 833,333 shares underlying Series A Preferred Stock, 1,428,571 shares underlying Series B Preferred Stock, 641,254 shares underlying Series C Preferred Stock and 1,129,200 shares underlying warrants that are convertible or exercisable, as the case may be, within 60 days.
- (17) Represents 550,000 shares underlying Series A Preferred Stock, 942,857 shares underlying Series B Preferred Stock, and 1,843,074 shares underlying warrants that are convertible or exercisable, as the case may be, within 60 days.
- (18) Represents 422,568 shares underlying warrants that exercisable within 60 days.
- (19) Represents 96,705 shares underlying warrants that exercisable within 60 days.
- (20) Represents 119,949 shares underlying warrants that exercisable within 60 days.
- (21) Represents 15,252 shares underlying warrants that exercisable within 60 days.

Plan of Distribution

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The selling stockholders will act independently of us in making decisions with respect to the timing, manner and size of each sale. Subject to any agreements by the selling stockholders described above, the selling stockholders may sell the shares from time to time at market prices prevailing on the American Stock Exchange at the time of offer and sale, or at prices related to such prevailing market prices; or in negotiated transactions; or a combination of such methods of sale directly or through brokers.

The selling stockholders may effect such transactions by offering and selling the shares directly to or through securities broker-dealers, and such broker-dealers may receive compensation in the form of discounts, concessions or commissions from the selling stockholders and/or the purchasers of the shares for whom such broker-dealers may act as agent or to whom the selling stockholders may sell as principal, or both, which compensation as to a particular broker-dealer might be in excess of customary commissions.

The selling stockholders and any broker-dealers who act in connection with the sale of his shares shall be deemed to be "underwriters" within the meaning of the Securities Act of 1933, and any discounts, concessions or commissions received by them and profit on any resale of the shares as principal shall be deemed to be underwriting discounts, concessions and commissions under the Securities Act of 1933. We have agreed to indemnify the selling stockholders against certain liabilities, including liabilities under the Securities Act of 1933, as underwriters or otherwise.

We have advised the selling stockholders that they and any securities broker-dealers or others who may be deemed to be statutory underwriters will be governed by the prospectus delivery requirements under the Securities Act of 1933. Under applicable rules and regulations under the Securities Exchange Act of 1934, any person engaged in a distribution of any of the shares may not simultaneously engage in market activities with respect to the common stock for the applicable period under Regulation M prior to the commencement of such distribution. In addition and without limiting the foregoing, the selling stockholders will be governed by the applicable provisions of the Securities and Exchange Act of 1934, and the rules and regulations thereunder, including without limitation Rules 10b-5 and Regulation M, which provisions may limit the timing of purchases and sales of any of the shares by the selling stockholders. All of the foregoing may affect the marketability of the common stock.

We have advised the selling stockholders that the anti-manipulation rules under the Securities Exchange Act of 1934 may apply to sales of shares in the market and to the activities of the selling stockholders and any of their affiliates. The selling stockholders have advised us that during the time the selling stockholders may be engaged in the attempt to sell shares registered under this prospectus, they will:

not engage in any stabilization activity in connection with any of the shares;

not bid for or purchase any of the shares or any rights to acquire the shares, or attempt to induce any person to purchase any of the shares or rights to acquire the shares other than as permitted under the Securities Exchange Act of 1934;

not effect any sale or distribution of the shares until after the prospectus shall have been appropriately amended or supplemented, if required, to describe the terms of the sale or distribution; and

effect all sales of shares in broker's transactions through broker-dealers acting as agents, in transactions directly with market makers, or in privately negotiated transactions where no broker or other third party, other than the purchaser, is involved.

The selling stockholders may indemnify any broker-dealer that participates in transactions involving the sale of the shares against certain liabilities, including liabilities arising under the Securities Act of 1933. Any commissions paid or any discounts or concessions allowed to any broker-dealers, and any profits received on the resale of shares, may be deemed to be underwriting discounts and commissions under the Securities Act of 1933 if the broker-dealers purchase shares as principal.

In the absence of this registration statement, the selling stockholders would be able to sell their shares only pursuant to the limitations of Rule 144 promulgated under the Securities Act of 1933 as described above.

Legal Matters

The validity of the issuance of the shares offered in this prospectus will be passed upon for us by Kirkpatrick & Lockhart, LLP, Los Angeles, California.

Experts

Ernst & Young LLP (San Diego, California), independent registered public accounting firm, have audited our 2003 and 2002 consolidated financial statements included in our annual report on Form 10-K for the year ended December 31, 2003, 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 Ernst & Young LLP's report, given on their authority as experts in accounting and auditing.

Where You Can Find More Information

We file annual, quarterly and special reports, along with other information with the SEC. You may read and copy any document we file at the public reference facilities maintained by the SEC at 450 Fifth Street, N.W., Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for further information on the public reference rooms. Our common stock is traded on The American Stock Exchange. You may inspect reports and other information concerning us at the offices of the American Stock Exchange, Inc., 86 Trinity Place, New York, New York 10006. These filings and other information may also be inspected without charge at a Web site maintained by the SEC. The address of the site is <http://www.sec.gov>.

Incorporation of Certain Documents by Reference

This prospectus is part of a registration statement filed with the SEC. The SEC allows us to "incorporate by reference" into this prospectus documents that we file with them, which means that we can disclose important information to you by referring you to those documents. The following documents were filed with the SEC pursuant to the Exchange Act and are incorporated by reference and made a part of this prospectus:

our Annual Report on Form 10-K for the year ended December 31, 2003;

our Quarterly Report on Form 10-Q for the quarter ended March 31, 2004;

our Current Report on Form 8-K filed May 27, 2004; and

the description of our capital stock contained in our registration statement on Form 8-A filed with the SEC on December 4, 1998, including any amendment or report filed for the purpose of updating such description.

The documents listed above and all documents that we file with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934 subsequent to the date of this initial registration statement and prior to effectiveness of this registration statement, or prior to the filing of a post-effective amendment that indicates that all securities offered herein have been sold or which deregisters all securities the remaining unsold, shall be deemed to be incorporated by reference into this prospectus and to be a part hereto from the date of filing such documents.

Any statement contained in a document that is incorporated by reference will be modified or superseded for all purposes to the extent that a statement contained in this prospectus, or in any other document that is subsequently filed with the SEC and incorporated by reference, modifies or is contrary to that previous statement. Any statement so modified or superseded will not be deemed a part of this prospectus except as so modified and superseded.

We will provide without charge to each person to whom this prospectus is delivered, upon oral or written request, a copy of any or all of the foregoing documents incorporated herein by reference (other than exhibits to such documents unless such exhibits are specifically incorporated by reference into the information that this prospectus incorporates). Written or telephone requests should be directed to Shareholder Relations at Genetronics Biomedical Corporation, 11199 Sorrento Valley Road,

San Diego, CA 92121-1334, telephone number (858) 597-6006. These reports are also available on our web site, the address of which is <http://www.genetronics.com>.

You should rely only on the information incorporated by reference or provided in this prospectus or any supplement. We have not authorized anyone else to provide you with different information. The selling stockholders will not make an offer of these shares in any state where the offer is not permitted. You should not assume that the information in this prospectus or any supplement is accurate as of any date other than the date of those documents.

PART II

INFORMATION NOT REQUIRED IN PROSPECTUS

Item 14. Other Expenses of Issuance and Distribution.

The following table sets forth the costs and expenses payable by the Registrant in connection with this offering, other than underwriting commissions and discounts, all of which are estimated except for the SEC registration fee.

Item	Amount
SEC registration fee	\$ 1,550
Printing and engraving expenses	3,000
Legal fees and expenses	120,000
Accounting fees and expenses	10,000
Transfer agent and registrar's fees and expenses	2,000
Miscellaneous expenses	3,450
Total	\$ 140,000

Item 15. Indemnification of Directors and Officers.

Under Section 145 of the General Corporation Law of the State of Delaware, we can indemnify our directors and officers against liabilities they may incur in such capacities, including liabilities under the Securities Act of 1933, as amended (the "Securities Act"). Our certificate of incorporation provides that, pursuant to Delaware law, our directors shall not be liable for monetary damages for breach of the directors' fiduciary duty of care to us and our stockholders. This provision in the certificate of incorporation does not eliminate the duty of care, and in appropriate circumstances equitable remedies such as injunctive or other forms of nonmonetary relief will remain available under Delaware law. In addition, each director will continue to be subject to liability for breach of the director's duty of loyalty to us or our stockholders, for acts or omissions not in good faith or involving intentional misconduct or knowing violations of the law, for actions leading to improper personal benefit to the director, and for payment of dividends or approval of stock repurchases or redemptions that are unlawful under Delaware law. The provision also does not affect a director's responsibilities under any other law, such as the federal securities laws or state or federal environmental laws.

Our bylaws provide for the indemnification of our directors to the fullest extent permitted by the Delaware General Corporation Law. Our bylaws further provide that our Board of Directors has sole discretion to indemnify our officers and other employees. We may limit the extent of such indemnification by individual contracts with our directors and executive officers, but have not done so. We are not, however, required to indemnify any director or executive officer in connection with any proceeding initiated by us and approved by a majority of our Board of Directors, that alleges (a) unlawful misappropriation of corporate assets, (b) disclosure of confidential information or (c) any other willful breach of such director or executive officer's duty to us or our stockholders. We are required to advance, prior to the final disposition of any proceeding, promptly on request, all expenses incurred by any director or executive officer in connection with that proceeding on receipt of an undertaking by or on behalf of that director or executive officer to repay those amounts if it should be determined ultimately that he or she is not entitled to be indemnified under our bylaws or otherwise.

We also have directors' and officers' liability insurance.

Item 16. Exhibits.

Exhibit Number	Description of Exhibit
3.1	Certificate of Incorporation (incorporated by reference to exhibit number 3.1 of the Registrant's Registration Statement on Form S-3 (File No. 333-108752) filed with the Securities and Exchange Commission on September 12, 2003).
3.2	Certificate of Amendment to Certificate of Incorporation (incorporated by reference to exhibit number 3.2 of the Registrant's Annual Report on Form 10-K for the year ended December 31, 2002).
3.3	Certificate of Designations, Rights and Preferences of Series C Cumulative Convertible Preferred Stock.
3.4	Certificate of Decrease of Shares of Series C Cumulative Convertible Preferred Stock.
3.5	Amended and Restated Bylaws (incorporated by reference to exhibit number 3.2 of the Registrant's Quarterly Report on Form 10-Q for the three months ended September 30, 2002).
4.1	Preferred Stock and Warrant Purchase Agreement, dated May 10, 2004, between the Registrant and the Purchasers listed on Schedule 1 thereto.
4.2	Investors Rights Agreement, dated May 10, 2004, between the Registrant and the Purchasers listed on Schedule 1 thereto.
4.3	Form of Series C Common Stock Purchase Warrant, dated May 10, 2004, between the Registrant and the each of the Purchasers listed on Schedule 1 of Purchase Agreement (Exhibit 4.1).
4.4	Form of Placement Agent Common Stock Purchase Warrant, dated May 20, 2004, between the Registrant and each of SCO Capital Partners LLC, Jeffrey B. Davis, Preston Tsao, Daniel DiPietro and Mark Alvino.
4.5	Specimen Common Stock Certificate (incorporated by reference to exhibit number 4.8 of the Registrant's Registration Statement on Form S-3 (File No. 333-108752) filed with the Securities and Exchange Commission on September 12, 2003).
5.1	Opinion of Kirkpatrick & Lockhart, LLP.
23.1	Consent of Ernst & Young LLP, Independent Registered Public Accounting Firm
23.2	Consent of Kirkpatrick & Lockhart, LLP (contained in Exhibit 5.1).
24.1	Power of Attorney (included on signature page).

Item 17. Undertakings

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:
 - a) To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933 (the "Securities Act");
 - b) 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

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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 a 20% change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement;

- c) 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) and (b) 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 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, 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.
4. 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 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.
5. The undersigned Registrant hereby undertakes to deliver or cause to be delivered with the prospectus, to each person to whom the prospectus is sent or given, the latest annual report to security holders that is incorporated by reference in the prospectus and furnished pursuant to and meeting the requirements of Rule 14a-3 or Rule 14c-3 under the Securities Exchange Act of 1934; and, where interim financial information required to be presented by Article 3 of Regulation S-X are not set forth in the prospectus, to deliver, or cause to be delivered to each person to whom the prospectus is sent or given, the latest quarterly report that is specifically incorporated by reference in the prospectus to provide such interim financial information.
6. 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 Securities and Exchange 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.

7.

The undersigned Registrant hereby undertakes that:

a)

For the purposes of determining any liability under the Securities Act, the information omitted from the form of prospectus filed as part of this registration statement in reliance upon Rule 430A and contained in a form of prospectus filed by the Registrant pursuant to Rule 424(b)(1) or (4) or 497(h) under the Securities Act shall be deemed to be part of the registration statement as of the time it was declared effective.

b)

For the purposes of determining any liability under the Securities Act, each post-effective amendment that contains a form of prospectus 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.

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SIGNATURES

Pursuant to the requirements of the Securities Act, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements of filing on Form S-3 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized in the City of San Diego, State of California, on June 21, 2004.

GENETRONICS BIOMEDICAL CORPORATION

By: /s/ AVTAR DHILLON

 Avtar Dhillon
 President, Chief Executive Officer

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Avtar Dhillon as his true and lawful attorneys-in-fact and agents, with full power of substitution for him in any and all capacities, to sign (1) any and all amendments (including post-effective amendments) to this Registration Statement and (2) any registration statement or post-effective amendment thereto to be filed with the Securities and Exchange Commission pursuant to Rule 462(b) under the Securities Act of 1933, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in connection therewith, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or any of them, or their or his substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

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

Signature	Title	Date
_____ /s/ AVTAR DHILLON _____ Avtar Dhillon	Chief Executive Officer, President and Director (Principal Executive Officer)	June 21, 2004
_____ /s/ PETER D. KIES _____ Peter D. Kies	Chief Financial Officer (Principal Financial Officer and Principal Accounting Officer)	June 21, 2004
_____ /s/ JAMES L. HEPPELL _____ James L. Heppell	Director	June 21, 2004
_____ /s/ GENE LARSON _____ Gene Larson	Director	June 21, 2004

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/s/ FELIX THEEUWES

Felix Theeuwes

Director

June 21, 2004

/s/ TAZDIN ESMAIL

Tazdin Esmail

Director

June 21, 2004

/s/ SIMON X. BENITO

Simon X. Benito

Director

June 21, 2004

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