

TARGETED GENETICS CORP /WA/  
Form S-3  
July 11, 2007

As filed with the Securities and Exchange Commission on July 11, 2007

Registration No. 333-\_\_\_\_\_

**SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

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**FORM S-3**

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

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**TARGETED GENETICS CORPORATION**  
(Exact Name of Registrant as Specified in Its Charter)

**Washington** **91-1549568**  
(State or Other Jurisdiction of Incorporation or (I.R.S. Employer Identification No.)  
Organization)

**1100 Olive Way, Suite 100**  
**Seattle, Washington 98101**  
**(206) 623-7612**

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

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**H. Stewart Parker**  
**President and Chief Executive Officer**  
**Targeted Genetics Corporation**  
**1100 Olive Way, Suite 100**  
**Seattle, Washington 98101**  
**(206) 623-7612**

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

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**Copies to:**  
**Stephen M. Graham**  
**Orrick, Herrington & Sutcliffe LLP**  
**719 Second Avenue, Suite 900**  
**Seattle, Washington 98104**  
**(206) 839-4300**

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

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If the only securities being registered on this Form are being 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.

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If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act of 1933, 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 of 1933, 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 registration statement pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box.

2

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If this Form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box.

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**CALCULATION OF REGISTRATION FEE**

Title of each class of securities to be registered	Amount to be registered	Proposed maximum offering price per unit (2)	Proposed maximum aggregate offering price (2)	Amount of registration fee
Common Stock, par value \$0.01 per share	13,734,575 shares(1) \$	2.78 \$	38,182,118 \$	1,172.19

- (1) Includes 6,699,793 shares of the registrant's common stock outstanding and 7,034,782 shares of common stock that may be issued upon exercise of warrants held by selling shareholders. Pursuant to Rule 416 of the Securities Act of 1933, as amended, this registration statement shall also cover any additional shares of common stock by reason of any stock dividend, stock split, recapitalization or similar transaction or to cover such additional shares as may hereinafter be offered or issued to prevent dilution resulting from stock splits, stock dividends, recapitalizations or certain other capital adjustments, effected without the registrant's receipt of consideration, which results in an increase in the number of outstanding shares of the registrant's common stock.
- (2) Estimated solely for the purpose of calculating the registration fee pursuant to Rule 457(c) under the Securities Act of 1933, as amended, based on the high and low sales prices of the registrant's common stock as reported on the NASDAQ Capital Market on July 6, 2007.

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**Targeted Genetics Corporation hereby undertakes to amend this registration statement on such date or dates as may be necessary to delay its effective date until Targeted Genetics Corporation shall file a further amendment that specifically states that this registration statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933, as amended, or until this registration statement shall become effective on such date as the Commission, acting pursuant to Section 8(a), may determine.**

**The information in this preliminary prospectus is not complete and may be changed. The selling shareholders named in this preliminary prospectus may not sell these securities until the Registration Statement filed with the Securities and Exchange Commission is effective. This preliminary prospectus is not an offer to sell these securities and the selling shareholders named in this preliminary prospectus are not soliciting offers to buy these securities in any jurisdiction where the offer or sale is not permitted.**

**SUBJECT TO COMPLETION, DATED JULY 11, 2007**

**13,734,575 Shares**

**TARGETED GENETICS CORPORATION**

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**Common Stock**

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This prospectus relates to an aggregate of 13,734,575 shares of our common stock which may be disposed of by the Selling Shareholders listed on page 19, or their transferees. The shares covered hereby consist of 6,699,793 shares of our common stock and warrants to purchase up to 7,034,782 shares of our common stock. The shares and warrants were acquired directly from us on June 27, 2007 in a private placement that was exempt from the registration requirements of the federal securities laws. We will not receive any of the proceeds from the sale of these shares by the Selling Shareholders, but we will receive proceeds from the exercise of warrants, if exercised for cash.

Our common stock is quoted on the NASDAQ Capital Market under the symbol "TGEN." On July 6, 2007, the last reported sale price of our common stock was \$2.80 per share.

The Selling Shareholders may dispose of the shares covered hereby on the NASDAQ Capital Market or otherwise. These dispositions may be at fixed prices, at prevailing market prices at the time of sale, at prices related to the prevailing market price, at varying prices determined at the time of sale, or at negotiated prices. We will pay certain of the expenses of this offering, estimated to be \$1.6 million.

You should read this prospectus carefully before you invest.

**Investing in this stock involves a high degree of risk.  
See "Risk Factors" beginning on page 8.**

**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.**

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The date of this prospectus is July 11, 2007.

## TABLE OF CONTENTS

	Page
Prospectus Summary	7
Risk Factors	8
Use of Proceeds	18
Selling Shareholders	18
Plan of Distribution	21
Legal Matters	23
Experts	23
Special Note Regarding Forward-Looking Statements	23
Where You Can Find More Information	24

*You should rely only on the information provided or incorporated by reference in this prospectus. Neither we nor the Selling Shareholders have authorized anyone to provide you with additional or different information or representations. You should not assume that the information in this prospectus is accurate as of any date other than its date, regardless of the time of delivery of this prospectus or any sale of common stock.*

*This prospectus is an offer to sell and a solicitation of an offer to buy the securities offered by this prospectus only in jurisdictions where the offer or sale is permitted.*

In this prospectus, “Targeted Genetics,” “we,” “us” and “our” refer to Targeted Genetics Corporation and its subsidiaries. References to the “Securities Act,” refer to the Securities Act of 1933, as amended.

## Prospectus Summary

The following summary is qualified in its entirety by, and should be read in conjunction with, the more detailed information appearing elsewhere in this prospectus and incorporated by reference herein. Before you decide to invest in our common stock, you should read the entire prospectus carefully.

### About This Prospectus

This prospectus is part of a registration statement on Form S-3 filed by us with the Securities and Exchange Commission, or SEC, to register 13,734,575 shares of our common stock, consisting of 6,699,793 shares of common stock currently issued and outstanding, or the Common Shares, as well as up to 7,034,782 shares of common stock, or the Warrant Shares, issuable upon exercise of warrants, or the Warrants. Together the Common Shares and the Warrant Shares are referred to in this prospectus as the “Shares.” The Common Shares and Warrants were sold in connection with our private placement, which closed on June 27, 2007, as described in Current Reports on Form 8-K filed by us with the SEC on June 25, 2007 and June 28, 2007. The Shares are being registered for resale or other disposition by the Selling Shareholders or their transferees. We will not receive any proceeds from the sale or other disposition of the Shares registered hereunder, or interests therein. We will, however, receive proceeds from the exercise of any Warrants, if the exercise price is paid in cash. If all of the Warrants are exercised for cash, we will receive proceeds of approximately \$22.9 million, which we currently intend to use for general corporate purposes.

### About Targeted Genetics Corporation

This summary does not contain all the information about us that may be important to you. You should read the more detailed information and consolidated financial statements and related notes that are incorporated by reference and are considered to be a part of this prospectus.

We are a clinical-stage biotechnology company focused on the development of targeted molecular therapies for the prevention and treatment of acquired and inherited diseases with unmet medical need. Our product development efforts target inflammatory arthritis, AIDS prophylaxis, congestive heart failure and Huntington's disease.

We develop gene therapy products and technologies for treating both acquired and inherited diseases. Our gene therapy product candidates are designed to treat disease by appropriately modifying cellular function at a genetic level. This involves introducing genetic material into target cells and expressing it in a manner that provides the desired effect. We have assembled a broad base of proprietary intellectual property that we believe gives us the potential to address the significant diseases that are the primary focus of our business. Our proprietary intellectual property includes gene therapy uses of certain genes, methods of transferring genetic material into cells, processes to manufacture our AAV-based product candidates and other proprietary technologies and processes. In addition, we have established expertise and development capabilities focused in the areas of preclinical research and development, manufacturing and manufacturing process scale-up, quality control, quality assurance, regulatory affairs and clinical trial design and implementation.

We have three product candidates in clinical trials. The first, tgAAC94, is an AAV-based product candidate being developed for the treatment of inflammatory arthritis. The second is an AAV-based prophylactic vaccine candidate for high-risk populations in developing nations to protect against HIV/AIDS. We are developing this program in collaboration with the International AIDS Vaccine Initiative, or IAVI, a non-profit organization, the Columbus Children's Research Institute at Children's Hospital in Columbus, Ohio, or CCRI, and The Children's Hospital of Philadelphia, or CHOP. The National Institute of Allergy and Infectious Disease, or NIAID, has awarded a \$21.75 million contract to us and our scientific collaborators at CHOP and CCRI. We have a subcontract with CHOP to complete work related to the NIAID contract, under which we may receive up to \$18.2 million over the five-year period of the contract. As of December 31, 2006, we had earned approximately \$1.5 million under this subcontract.



The purpose of the NIAID award is to develop AAV-based vaccines against HIV strains most prevalent in North America and Europe. The third product candidate in clinical trials, MYDICAR, utilizes an AAV vector to deliver the SERCA2a gene to heart muscle tissue for the treatment of congestive heart failure. We are developing this product candidate with Celladon Corporation, or Celladon.

We are also partnered with Sirna Therapeutics, Inc., or Sirna, a wholly owned subsidiary of Merck & Co., Inc., in a collaboration formed in January 2005, to develop short interfering RNA, AAV-based therapies for the treatment of Huntington's disease.

The development of pharmaceutical products, including our potential inflammatory arthritis, prophylactic AIDS vaccine, congestive heart failure, and Huntington's disease product candidates discussed above, involves extensive preclinical development followed by human clinical trials that take several years or more to complete. The length of time required to completely develop any product candidate varies substantially according to the type, complexity and novelty of the product candidate, the degree of involvement by a development partner and the intended use of the product candidate. Our commencement and rate of completion of clinical trials may vary or be delayed for many reasons, including those discussed in the section entitled "Risk Factors" presented below.

We were incorporated in the state of Washington in 1989. Our executive offices are located at 1100 Olive Way, Suite 100, Seattle, Washington 98101, and our telephone number is (206) 623-7612.

For more information about us, you should read this prospectus, including the information described in the section of this prospectus entitled "Where You Can Find More Information," together with our consolidated financial statements and related notes.

## **RISK FACTORS**

*Our business faces significant risks. You should carefully consider the following risk factors, in addition to the other information included or incorporated by reference in this prospectus, before purchasing our securities. These risks may not be the only risks we face. Additional risks that we do not yet know of or that we currently think are immaterial also may impair our business. You could lose all or part of your investment if any of the following risks actually occurs.*

### **Risks Related to Our Business**

*We expect to continue to operate at a loss and may never become profitable.*

Substantially all of our revenue to date has been derived under collaborative research and development agreements relating to the development of our potential product candidates. We have incurred, and will continue to incur for the foreseeable future, significant expense to develop our research and development programs, conduct preclinical studies and clinical trials, seek regulatory approval for our product candidates and provide general and administrative support for these activities. As a result, we have incurred significant net losses since inception, and we expect to continue to incur substantial additional losses in the future. As of March 31, 2007, we had an accumulated deficit of \$287.9 million. We may never be able to commercialize our products or generate profits and, if we do become profitable, we may be unable to sustain or increase profitability.

*All of our product candidates are in early-stage clinical trials or preclinical development, and if we are unable to successfully develop and commercialize our product candidates we will be unable to generate sufficient capital to maintain our business.*

In March 2006, we initiated a Phase I/II trial for our inflammatory arthritis product candidate in the United States and Canada. We will not generate any product revenue for at least several years and then only if we can successfully develop and commercialize our product candidates. Commercializing our potential products depends on successful completion of additional research and development and testing, in both preclinical development and clinical trials. Clinical trials may take several years or more to complete. The commencement, cost and rate of completion of our clinical trials may vary or be delayed for many reasons. If we are unable to successfully complete preclinical and clinical development of some or all of our product candidates in a timely manner, we may be unable to generate

sufficient product revenue to maintain our business.

8

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Even if our potential products succeed in clinical trials and are approved for marketing, these products may never achieve market acceptance. If we are unsuccessful in commercializing our product candidates for any reason, including greater effectiveness or economic feasibility of competing products or treatments, the failure of the medical community or the public to accept or use any products based on gene delivery, inadequate marketing and distribution capabilities or other reasons discussed elsewhere in this section, we will be unable to generate sufficient product revenue to maintain our business.

***The success of our clinical trials and preclinical studies may not be indicative of results in a large number of subjects of either safety or efficacy.***

The successful results of our technology in preclinical studies using animal models may not be predictive of the results that we will see in our clinical trials. In addition, results in early-stage clinical trials are based on limited numbers of subjects and generally test for drug safety rather than efficacy. Our reported progress and results from our early phases of clinical testing of our product candidates may not be indicative of progress or results that will be achieved from larger populations, which could be less favorable. Moreover, we do not know if the favorable results we have achieved in clinical trials will have a lasting or repeatable effect. If a larger group of subjects does not experience positive results or if any favorable results do not demonstrate a beneficial effect, our product candidates that we advance to clinical trials may not receive approval from the FDA for further clinical trials or commercialization. For example, in March 2005, we discontinued the development of tgAAVCF, our product candidate for the treatment of cystic fibrosis, following the analysis of Phase II clinical trial data in which tgAAVCF failed to achieve the efficacy endpoints of the trial.

***If we are unable to raise additional capital when needed, we will be unable to conduct our operations and develop our potential products.***

Because internally generated cash flow will not fund development and commercialization of our product candidates, we will require substantial additional financial resources. Our future capital requirements will depend on many factors, including:

- the rate and extent of scientific progress in our research and development programs;
- the timing, costs and scope of, and our success in, conducting clinical trials, obtaining regulatory approvals and pursuing patent prosecutions;
- competing technological and market developments;
- the timing and costs of, and our success in, any product commercialization activities and facility expansions, if and as required; and
- the existence and outcome of any litigation or administrative proceedings involving intellectual property.

Additional sources of financing could involve one or more of the following:

- entering into additional product development collaborations;
- mergers and acquisitions;
- issuing equity in the public or private markets;
- extending or expanding our current collaborations;



- selling or licensing our technology or product candidates;
- borrowing under loan or equipment financing arrangements; and
- issuing debt.

Additional funding may not be available to us on reasonable terms, if at all. Our ability to issue equity, and our ability to issue it at the current market price, may be adversely affected by the fact that we are presently ineligible under SEC rules to utilize Form S-3 for primary offerings of our securities because the aggregate market value of our outstanding common stock held by non-affiliates is less than \$75.0 million.

The perceived risk associated with the possible sale of a large number of shares of our common stock could cause some of our shareholders to sell their stock, thus causing the price of our stock to decline. In addition, actual or anticipated downward pressure on our stock price due to actual or anticipated sales of stock could cause some institutions or individuals to engage in short sales of our common stock, which may itself cause the price of our stock to decline.

If our stock price declines, we may be unable to raise additional capital. A sustained inability to raise capital could force us to go out of business. Significant declines in the price of our common stock could also impair our ability to attract and retain qualified employees, reduce the liquidity of our common stock and result in the delisting of our common stock from the NASDAQ Capital Market.

The funding that we expect to receive from our collaborations depends on continued scientific progress under the collaborations and our collaborators' ability and willingness to continue or extend the collaboration. If we are unable to successfully access additional capital, we may need to scale back, delay or terminate one or more of our development programs, curtail capital expenditures or reduce other operating activities. We may also be required to relinquish some rights to our technology or product candidates or grant or take licenses on unfavorable terms, either of which would reduce the ultimate value to us of our technology or product candidates.

***Failure to recruit subjects could delay or prevent clinical trials of our potential products, which could delay or prevent the development of potential products.***

Identifying and qualifying subjects to participate in clinical trials of our potential products is critically important to our success. The timing of our clinical trials depends on the speed at which we can recruit subjects to participate in testing our product candidates. We have experienced delays in some of our clinical trials due to difficulty recruiting subjects, and we may experience similar delays in the future. If subjects are unwilling to participate in our gene therapy trials because of negative publicity from adverse events in the biotechnology or gene therapy industries or for other reasons, including competitive clinical trials for similar patient populations, the timeline for recruiting subjects, conducting trials and obtaining regulatory approval of potential products will be delayed. These delays could result in increased costs, delays in advancing our product development, delays in testing the effectiveness of our technology or termination of the clinical trials altogether.

***The regulatory approval process for our product candidates is costly, time-consuming and subject to unpredictable changes and delays, and our product candidates may never receive regulatory approval.***

No gene therapy products have received regulatory approval for marketing from the U.S. Food and Drug Administration, or FDA. Because our product candidates involve new and unproven technologies, we believe that the regulatory approval process may proceed more slowly compared to clinical trials involving traditional drugs. The

FDA and applicable state and foreign regulators must conclude at each stage of clinical testing that our clinical data suggest acceptable levels of safety in order for us to proceed to the next stage of clinical trials. In addition, gene therapy clinical trials conducted at institutions that receive funding for recombinant DNA research from the National Institute of Health, or NIH are subject to review by the NIH's Office of Biotechnology Activities Recombinant DNA Advisory Committee, or RAC. Although NIH guidelines do not have regulatory status, the RAC review process can impede the initiation of the trial, even if the FDA has reviewed the trial and approved its initiation. Moreover, before a clinical trial can begin at an NIH-funded institution, that institution's Institutional Biosafety Committee must review the proposed clinical trial to assess the safety of the trial.

The regulatory process for our product candidates is costly, time-consuming and subject to unpredictable delays. The clinical trial requirements of the FDA, NIH and other agencies and the criteria these regulators use to determine the safety and efficacy of a product candidate vary substantially according to the type, complexity, novelty and intended use of the potential products. In addition, regulatory requirements governing gene therapy products have changed frequently and may change in the future. Accordingly, we cannot predict how long it will take or how much it will cost to obtain regulatory approvals for clinical trials or for manufacturing or marketing our potential products. Some or all of our product candidates may never receive regulatory approval. A product candidate that appears promising at an early stage of research or development may not result in a commercially successful product. Our clinical trials may fail to demonstrate the safety and efficacy of a product candidate or a product candidate may generate unacceptable side effects or other problems during or after clinical trials. Should this occur, we may have to delay or discontinue development of the product candidate, and the partner, if any, that supports development of such product candidate may terminate its support. Delay or failure to obtain, or unexpected costs in obtaining, the regulatory approval necessary to bring a potential product to market will decrease our ability to generate sufficient product revenue to maintain our business.

***If we are unable to obtain or maintain licenses for necessary third-party technology on acceptable terms or to develop alternative technology, we may be unable to develop and commercialize our product candidates.***

We have entered into exclusive and nonexclusive license agreements that give us and our partners rights to use technologies owned or licensed by commercial and academic organizations in the research, development and commercialization of our potential products. For example, we have a gene therapy technology license agreement with Amgen Inc., or Amgen, as the successor to Immunex Corporation, or Immunex, under which we have licensed rights to certain Immunex proprietary technology specifically applicable to gene therapy applications. In a February 2004 letter, Amgen took the position that we are not licensed, either exclusively or nonexclusively, to use Immunex intellectual property covering TNFR:Fc or therapeutic uses for TNFR:Fc. We have responded with a letter confirming our confidence that the gene therapy technology license agreement provides us with an exclusive worldwide license to use the gene construct coding for TNFR:Fc for gene therapy applications. We have had, and expect to have further, communications with Amgen regarding our differences. Notwithstanding our confidence, it is possible that a resolution of those differences, through litigation or otherwise, could cause delay or discontinuation of our development of tgAAC94 or our inability to commercialize any resulting product.

We believe that we will need to obtain additional licenses to use patents and unpatented technology owned or licensed by others for use, compositions, methods, processes to manufacture compositions, processes to manufacture and purify gene delivery product candidates and other technologies and processes for our present and potential product candidates. If we are unable to maintain our current licenses for third-party technology or obtain additional licenses on acceptable terms, we may be required to expend significant time and resources to develop or license replacement technology. If we are unable to do so, we may be unable to develop or commercialize the affected product candidates. In addition, the license agreements for technology for which we hold exclusive licenses typically contain provisions that require us to meet minimum development milestones in order to maintain the license on an exclusive basis for some or all fields of the license. We also have license agreements for some of our technologies that may require us to sublicense certain of our rights. If we do not meet these requirements, our licensor may convert all or a portion of the license to a nonexclusive license or, in some cases, terminate the license.

In many cases, patent prosecution of our licensed technology is controlled solely by the licensor. If our licensors fail to obtain and maintain patent or other protection for the proprietary intellectual property we license from them, we could lose our rights to the intellectual property or our exclusivity with respect to those rights, and our competitors could market competing products using the intellectual property. Licensing of intellectual property is of critical importance to our business and involves complex legal, business and scientific issues and is complicated by the rapid pace of scientific discovery in our industry. Disputes may arise regarding intellectual property subject to a licensing agreement, including:





- the scope of rights granted under the license agreement and other interpretation-related issues;
- the extent to which our technology and processes infringe on intellectual property of the licensor that is not subject to the licensing agreement;
- the sublicensing of patent and other rights under our collaborative development relationships;
- the ownership of inventions and know-how resulting from the joint creation or use of intellectual property by our licensors and us and our partners; and
- the priority of invention of patented technology.

If disputes over intellectual property that we have licensed prevent or impair our ability to maintain our current licensing arrangements on acceptable terms, we may be unable to successfully develop and commercialize the affected product candidates.

***Litigation involving intellectual property, product liability or other claims and product recalls could strain our resources, subject us to significant liability, damage our reputation or result in the invalidation of our proprietary rights.***

As our product development efforts progress, most particularly in potentially significant markets such as HIV/AIDS, congestive heart failure or inflammatory arthritis therapies, the risk increases that others may claim that our processes and product candidates infringe on their intellectual property rights. In addition, administrative proceedings, litigation or both may be necessary to enforce our intellectual property rights or determine the rights of others. Defending or pursuing these claims, regardless of their merit, would be costly and would likely divert management's attention and resources away from our operations. If there were to be an adverse outcome in litigation or an interference proceeding, we could face potential liability for significant damages or be required to obtain a license to the patented process or technology at issue, or both. If we are unable to obtain a license on acceptable terms, or to develop or obtain alternative technology or processes, we may be unable to manufacture or market any product or potential product that uses the affected process or technology.

Clinical trials and the marketing of any potential products may expose us to liability claims resulting from the testing or use of our products. Gene therapy treatments are new and unproven, and potential known and unknown side effects of gene therapy may be serious and potentially life-threatening. Product liability claims may be made by clinical trial participants, consumers, healthcare providers or other sellers or users of our products. Although we currently maintain liability insurance, the costs of product liability and other claims against us may exceed our insurance coverage. In addition, we may require increased liability coverage as additional product candidates are used in clinical trials or commercialized. Liability insurance is expensive and may not continue to be available on acceptable terms. A product liability or other claim or product recall not covered by or exceeding our insurance coverage could significantly harm our financial condition. In addition, adverse publicity resulting from a product recall or a liability claim against us, one of our partners or another gene therapy company could significantly harm our reputation and make it more difficult to obtain the funding and collaborative partnerships necessary to maintain our business.

***We may be unable to adequately protect our proprietary rights domestically or overseas, which may limit our ability to successfully market any product candidates.***

Our success depends substantially on our ability to protect our proprietary rights and operate without infringing on the proprietary rights of others. We own or license patents and patent applications, and will need to license additional patents, for genes, processes, practices and techniques critical to our present and potential product candidates. If we fail to obtain and maintain patent or other intellectual property protection for this technology, our competitors could

market competing products using those genes, processes, practices and techniques. The patent process takes several years and involves considerable expense. In addition, patent applications and patent positions in the field of biotechnology are highly uncertain and involve complex legal, scientific and factual questions. Our patent applications may not result in issued patents and the scope of any patent may be reduced both before and after the patent is issued. Even if we secure a patent, the patent may not provide significant protection and may be circumvented or invalidated.

We also rely on unpatented proprietary technology and technology that we have licensed on a nonexclusive basis. While we take precautions to protect our proprietary unpatented technology, we may be unable to meaningfully protect this technology from unauthorized use or misappropriation by a third party. Our competitors could also obtain rights to our nonexclusively licensed proprietary technology. In any event, other companies may independently develop equivalent proprietary information and techniques. If our competitors develop and market competing products using our unpatented or nonexclusively licensed proprietary technology or substantially similar technology, our products, if successfully developed, could suffer a reduction in sales or be forced out of the market.

***If we do not attract and retain qualified personnel, we may be unable to develop and commercialize some of our potential products.***

Our future success depends in large part on our ability to attract and retain key technical and management personnel. All of our employees, including our executive officers, can terminate their employment with us at any time. We have programs in place designed to retain personnel, including competitive compensation packages and programs to create a positive work environment.