

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

Form 10-K

FOR ANNUAL AND TRANSITION REPORTS
PURSUANT TO SECTION 13 OR 15(d) OF THE
SECURITIES AND EXCHANGE ACT OF 1934

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE
ACT OF 1934

For the fiscal year ended December 31, 2002

Or

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES
EXCHANGE ACT OF 1934

For the transition period from _____ to _____.

Commission file number 000-30929

KERYX BIOPHARMACEUTICALS, INC.
(Exact Name of Registrant as Specified in Its Charter)

DELAWARE
(State or Other Jurisdiction of
Incorporation or Organization)

13-4087132
(I.R.S. Employer
Identification No.)

750 LEXINGTON AVENUE
New York, New York 10022
(Address of Principal Executive Offices)

Registrant's Telephone Number, Including Area Code: 212-531-5965

Securities Registered Pursuant to Section 12(b) of the Act:

None

Securities Registered Pursuant to Section 12(g) of the Act:

COMMON STOCK, PAR VALUE \$0.001 PER SHARE

Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.

Yes No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant's knowledge, in the definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Annual Report on Form 10-K.

Indicate by check mark whether the registrant is an accelerated filer (as

defined in Rule 12b-2 of the Act).

Yes | | No |X|

The aggregate market value of the Common Stock held by non-affiliates of the registrant is \$27,621,850.32. Such aggregate market value was computed by multiplying the number of shares of the Common Stock held by non-affiliates of the registrant as of March 21, 2003 (12,168,216), by the closing sale price of the Common Stock as reported on the National Market segment of The Nasdaq Stock Market as of June 28, 2002 (\$2.27), the last business day of the registrant's most recently completed second fiscal quarter. For purposes of making this calculation only, the registrant has defined affiliates as including all directors, executive officers and 10% stockholders of the Company.

As of March 21, 2003, there were 20,076,885 shares of the registrant's Common Stock outstanding.

DOCUMENTS INCORPORATED BY REFERENCE

As stated in Part III of this Annual Report on Form 10-K, portions of the registrant's definitive proxy statement for the registrant's 2003 Annual Meeting of Stockholders are incorporated by reference in Part III of this Annual Report on Form 10-K.

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This Form 10-K contains trademarks and trade names of Keryx Biopharmaceuticals, Inc., including our name, logo and the KinAce mark. This Form 10-K may also include trademarks and trade names of other companies.

PART I

ITEM 1. BUSINESS.

Overview

We are a biopharmaceutical company engaged in the acquisition, development and commercialization of novel pharmaceutical products for the treatment of serious, life-threatening diseases, including diabetes and cancer. In August of 2002, we commenced a corporate restructuring that has resulted in an approximate 70% reduction in staff and a re-focus of our efforts primarily on the development of our lead compound, KRX-101, which has completed a European Phase 2 trial, and on the acquisition of additional clinical stage compounds.

Our lead compound under development is sulodexide, or KRX-101, to which we have an exclusive license in North America, Japan and other markets. In 2001, KRX-101 was granted Fast-Track designation for the treatment of diabetic nephropathy and, in 2002, we announced that the FDA had agreed, in principle, to permit us to avail ourselves of the accelerated approval process under subpart H of the FDA's regulations governing applications for the approval to market a new drug.

To date, we have not received approval for the sale of any of our drug candidates in any market.

Our Strategy

Since the restructuring, we have modified our business plan. Under our new strategy, we are currently planning to:

- o advance KRX-101 into a United States-based clinical trial for the treatment of diabetic nephropathy; and
- o seek to in-license additional compounds.

Additionally, we also plan to seek partners for the further development of our KinAce and other early-stage programs.

Corporate Information

We were incorporated as a Delaware corporation in October 1998. Although we started operating our business in November 1999, many of our principal technologies and drug candidates were developed by our predecessor company, Partec Ltd., and its subsidiaries during the period January 1997 to November 1999. Consequently, in this report, "we", "us" and "our" refer to Keryx Biopharmaceuticals, Inc., its predecessor company and its or our respective subsidiaries unless the context requires otherwise. Our executive offices are located at 750 Lexington Avenue, New York, New York 10022. Our telephone number is 212-531-5965 and our e-mail address is info@keryx.com. We also maintain offices at 101 Main Street, Cambridge, Massachusetts 02142 and 7 Hartom Street, Har Hotzvim, Jerusalem, 91236, Israel.

We maintain a website with the address www.keryx.com. We are not including the

information contained on our website as part of, or incorporating it by reference into, this Annual Report on Form 10-K. We make available free of charge through our website our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q and Current Reports on Form 8-K, and any amendments to these reports, as soon as reasonably practicable after we electronically file such material with, or furnish such material to, the Securities and Exchange Commission.

Development Stage Products

KRX-101

Overview

We have obtained a license to develop sulodexide, or KRX-101, to treat diabetic nephropathy and other conditions. Sulodexide is a glycosaminoglycan compound with structural similarities to the broad family of marketed heparins and low molecular

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weight heparins. Specifically, sulodexide is comprised of heparan sulfate, also referred to as fast-moving heparin, and dermatan sulfate. This drug has been marketed in a number of European, Asian and South American countries for many years by our licensor for certain cardiovascular conditions and has a well-established safety profile for such indications. Additionally, in Phase 2 studies conducted in Europe, sulodexide has demonstrated significant activity in the treatment of diabetic nephropathy, a serious and life-threatening kidney disease caused by diabetes. We plan to develop sulodexide in the United States and possibly other countries for the treatment of diabetic nephropathy and potentially for other indications.

Market Opportunity

There are in excess of 10 million diagnosed diabetics in the United States, of whom approximately 90% have been diagnosed with Type II diabetes, or DM2. DM2 results from the combination of insulin deficiency and the body's relative insensitivity to the insulin present, as opposed to Type I diabetes, or DM1, in which severe insulin deficiency results from destruction of the pancreas' insulin producing beta cells. In January 2003, the American Diabetes Association, or ADA, estimated that between 20-30% of diagnosed individuals with DM2 and DM1 develop evidence of nephropathy. These figures suggest that approximately two to three million diagnosed diabetics in the United States have nephropathy. Diabetes is now the most common cause of End Stage Renal Disease, or ESRD, in the US and in many other developed nations, and represents 44% of all new cases of ESRD in the US. Despite advances in clinical care, including improvements in glycemic (blood sugar) control and blood pressure control, the number of DM related cases of ESRD continues to rise. In particular, the incidence of DM2-related ESRD is rapidly increasing. Less than 20% of diabetics on dialysis in the US survive for five years, making the mortality of end-stage renal failure in this group higher than most forms of cancer. Unfortunately, renal transplantation is an option for less than 20% of diabetics with end-stage renal disease (as compared to 40-50% of non-diabetics), principally due to age and concomitant vascular disease. Thus, despite recent advances, diabetic nephropathy remains a potentially catastrophic illness for which partial, but insufficient treatment is available today. We believe that the estimated potential annual market for KRX-101 in the United States alone for the treatment of diabetic nephropathy is in excess of \$1 billion.

Scientific Background

Both DM1 and DM2 are characterized by insufficient insulin effect upon insulin-requiring tissues. As insulin is required for normal metabolism of glucose (sugar), fat (triglycerides and free fatty acids) and protein (amino acids), diabetes is accompanied by abnormal blood levels of these substances. In the short term, hyperglycemia (elevated blood glucose) causes the classic symptoms of diabetes: excessive thirst, frequent urination and weight loss. In

the long term, hyperglycemia (as well as other effects resulting from insufficient insulin effect) can progressively damage critical anatomic structures resulting in chronic diabetic complications. We are developing sulodexide (KRX-101) for the treatment of diabetic nephropathy, a long-term complication of diabetes in which the kidneys are progressively damaged. This progressive damage results in diminished kidney function progressing to end-stage renal disease, or ESRD, which, in turn, leads to death unless treated by dialysis and/or renal transplant.

The kidney can be depicted as being comprised of two anatomically and functionally distinct components placed in serial configuration. The first component is the glomerulus, which performs the critical filtering function of the kidney. Blood is passed through delicate microscopic glomerular capillary loops, which, acting as sieves, allow waste chemicals and excess water to pass through (into the "glomerular filtrate") while retaining desirable components, such as blood cells and albumin, within the blood. One of the key components of the glomerular capillary filtering membrane is highly anionic (negatively charged) glycosaminoglycan molecules that are very similar to the chemical components of sulodexide. The glomerular filtrate, which is the precursor of what will eventually be excreted as urine, flows into the next serial component, the tubular interstitial structure. In the tubules, further water is extracted from the filtrate and minerals and other body chemicals are absorbed from or secreted into the filtrate.

In diabetic nephropathy, it is the delicate glomerular loops that first sustain damage as a result of the diabetic state. These include:

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- o The glomerular loops' delicate filtering membranes thicken and their crucial anionic glycosaminoglycan molecules are either depleted or altered (they lose some or all of their negative charge). As the glycosaminoglycan negative charge provides normal filtering selectivity to the glomerular membranes, their loss results in the release of protein (usually albumin) from the blood into the filtrate and urine. This effect of protein in the urine is called "proteinuria" or "albuminuria", when the specific protein being referred to is albumin.
- o In addition, hyperglycemia induced overproduction of TGF beta (a regulatory protein) by the kidney induces scar formation in the area surrounding the glomerular capillaries. The extrinsic pressure of this scar tissue, over time, causes collapse of individual glomeruli with their resultant total functional loss and this too causes the release of albumin into the filtrate and urine.

In normally functioning kidneys, interstitial structures are not exposed to albumin. This exposure in turn leads to a potent inflammatory and eventually scarring response (also mediated in part by TGF beta) both in the tubules themselves and in the surrounding interstitial tissues. This scarring results in progressive diminution in kidney function. As might be expected, increasing urinary albumin excretion closely parallels this drop in kidney function. In ESRD, kidney function declines to the point where dialysis or transplantation becomes necessary to sustain life.

Sulodexide, or KRX-101, belongs to a proposed new class of nephroprotective (kidney protecting) drugs, the glycosaminoglycans. A variety of members of this chemical family have been shown to decrease pathological albumin excretion in diabetic nephropathy in man. These include the following approved drugs: standard heparin, low molecular weight heparin and danaparoid. However, these agents all require therapy by injection and are all potent anticoagulants, which are blood thinners capable of inducing bleeding. Sulodexide, on the other hand, is given orally and, in this form, has demonstrated little, if any, anticoagulant effects to date.

Preclinical and clinical data

In preclinical trials, glycosaminoglycan components similar or identical to those that make up sulodexide have been evaluated using well-accepted rodent models of diabetic nephropathy, in both preventive protocols where the drug was given at time diabetes was induced and prior to kidney damage, and treatment protocols, where the drug was given where diabetic kidney damage was already present. These glycosaminoglycans diminished the thickening of glomerular capillary filtering membranes, replenished the crucial anionic, or albumin repelling, charge, lowered urinary albumin leakage and decreased kidney expression of the specific scar protein collagen IV, both in the preventive and the treatment protocols, returning these parameters nearly to their normal levels. In addition, data demonstrate that sulodexide suppresses the hyperglycemia-, or high glucose-, induced overproduction of TGF beta, one of the most specific inducers of kidney scarring in diabetic and other kidney diseases. Thus glycosaminoglycans similar or identical to the components of sulodexide have prevented or reversed the hallmark "upstream" pathological abnormalities that drive the engine of progressive kidney dysfunction.

There have been more than 20 studies published in leading medical journals assessing the safety and efficacy of KRX-101 in humans. KRX-101 has been administered to more than 3,000 patients in clinical trials conducted in Europe for the treatment of certain diabetic and non-diabetic conditions and, to our knowledge, has not demonstrated any significant side effects for those uses.

The licensor of KRX-101 conducted a Phase 2 study of the use of sulodexide to treat diabetic nephropathy in 223 patients in Europe between 1996 and 1999. The trial, known as the DiNAS study, was a four-month dose response trial that showed clear reductions in pathological urinary albumin excretion rates. In this study, the higher the dose administered daily, the greater the demonstrated decrease in albumin excretion. Treatment with KRX-101 yielded additional declines in albumin excretion beyond those already achieved by treatment with Angiotensin Converting Enzyme, or ACE, inhibitors, the then current accepted therapy. Moreover, at the highest dose of KRX-101 (200 mg. per day), albumin excretion rates remained lowered for at least four months after the patients ceased receiving KRX-101. The DiNAS study was published in 2002 in the

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Journal of the American Society of Nephrology.

Development Status

In June 2000, we filed an investigational new drug application, or IND, with the FDA for permission to conduct a clinical trial for diabetic nephropathy in patients with DM2. In 2001, KRX-101 was granted Fast-Track designation for the treatment of diabetic nephropathy and in 2002, we announced that the FDA had agreed, in principle, to permit us to avail ourselves of the accelerated approval process under subpart H of the FDA's regulations governing applications for the approval to market a new drug. Generally, subpart H allows for the use of surrogate endpoints in Phase 3 trials to support the approval of a New Drug Application, or NDA, with confirmatory studies completed post-approval, and could greatly reduce the development time to market.

KRX-101 has been tested in a randomized placebo-controlled Phase 2 clinical trial, the DiNAS study, in Europe for the treatment of diabetic nephropathy. We are currently designing our U.S.-based clinical development plan for the treatment of diabetic nephropathy in collaboration with our Medical Advisory Board, or MAB. Our current plan is to conduct a randomized placebo-controlled study, which should confirm the significant efficacy results found in the DiNAS study under FDA mandated Good Clinical Practice, or GCP, guidelines. We believe that such study will provide us with well-controlled efficacy data and additional safety data regarding sulodexide and should be useful as part of our regulatory filing for FDA approval of sulodexide.

While conducting this study, we plan to continue to work with the FDA to finalize the specific requirements for approval of KRX-101 in the U.S.

The ultimate clinical timeline, and consequent cost, for further development of KRX-101 will depend, in part, on reaching agreement with the FDA on the specifics of our accelerated approval approach and meeting their conditions for use of such program.

Additional Indications

We believe KRX-101 may have significant potential to treat other diseases. These conditions include, but are not limited to, pre-eclampsia, a dangerous complication of pregnancy, and nephrotic syndrome. Nephrotic syndrome is the common term ascribed to the more advanced stage of a variety of different kidney diseases, characterized by massive amounts of albuminuria and proteinuria. Although the inciting pathological mechanisms of the various causes of nephrotic syndrome may differ from those seen in diabetic nephropathy, the final common pathway is the same. Albumin in glomerular filtrate "poisons" tubular cells leading to tubular interstitial inflammation and fibrosis and, ultimately, ESRD. We believe that the therapeutic mechanism of sulodexide cited above may be effective in nephrotic syndrome. In addition, we have filed patent applications to cover the use of KRX-101 for the treatment of inflammatory bowel disease, HIV-associated nephropathy, or HIVAN, and other indications.

Kinase Drug Discovery Platform and the SIB Technology

We are seeking partners to further the preclinical and clinical development of several of our KinAce product candidates as well as partners for the KinAce platform, which we believe can help other companies identify drug leads for kinase targets, and for the SIB technology, a technology used for the conversion of peptide drug candidates into small molecule drug candidates.

Protein kinases play a key role in the way cells communicate. When protein kinases give an inappropriate signal, the result is often a disease or other unwanted medical condition. Our KinAce platform uses a proprietary algorithm to identify unique regulatory regions within each kinase. Once this unique regulatory region is identified, we can duplicate it to form the basis of a compound that can potentially inhibit or stimulate the signal transduction pathway associated with that kinase.

Competition

KRX-101

ACE inhibitors or angiotensin 2 receptor blockers, or ARB, are the current standard of

care recommended by the American Diabetes Association for the treatment of diabetic nephropathy. Both of these classes of anti-hypertensive drugs are marketed by a number of companies, including, with respect to ACE inhibitors, Bristol Meyers (Monopril), AstraZeneca (Zestril), Merck (Cozaar) and Novartis Pharma AG (Diovan). Recently the FDA approved the first ARB for the treatment of diabetic nephropathy in DM2 and the Cardio-Renal Advisory committee has recently recommended the approval of another ARB for diabetic nephropathy. Although these two classes of drugs are the current standard of care, for most patients they provide only modest benefit in delaying the progression of their disease. Therefore, we believe there is a critical need for new drugs that can halt or materially slow this progression.

Moreover, we do not believe that KRX-101 will directly compete with ACE inhibitors or ARB drugs but rather will be used concomitantly in patients with nephropathy. As with many life-threatening diseases, such as HIV/AIDS and cancer, we believe a cocktail approach utilizing drugs with distinct mechanisms of action will be needed to treat diabetic nephropathy. Preliminary clinical evidence suggests that the albuminuria-reducing effects of KRX-101 may be additive to those achieved by ACE inhibitors for nephropathy of both DM1 and

DM2.

Other companies are developing drugs designed to treat diabetic complications, including Exocell, Inc., which has a compound aimed at nephropathy in a Phase 3 clinical trial, and Biostratum AB, which is currently testing its compound in a Phase 2 trial.

KinAce Platform

Several biotechnology and pharmaceutical companies are active in the field of signal transduction, including Sugen, Inc. (a subsidiary of Pharmacia-Upjohn), Ariad Pharmaceuticals Inc., Tularik, Inc., Ligand Pharmaceuticals Inc. and ICOS Corporation. In addition, Vertex Pharmaceuticals, Inc. and Novartis Pharma AG have formed an alliance to discover eight kinase inhibitors.

Intellectual Property

General

Patents and other proprietary rights are very important to the development of our business. We will be able to protect our proprietary technologies from unauthorized use by third parties only to the extent that our proprietary rights are covered by valid and enforceable patents or are effectively maintained as trade secrets. It is our intention to seek and maintain patent and trade secret protection for our drug candidates and our proprietary technologies.

KRX-101

Pursuant to our license for KRX-101, we have the rights to eight families of patents and applications. These patent families include at least ten patents issued in various countries, of which four are issued in the United States. The licensed patent families cover the use of KRX-101 to treat diabetic nephropathy and retinopathy, including novel formulations containing KRX-101 for use in all indications and novel dosage levels of KRX-101 for use in the treatment of diabetic nephropathy, and the use of related compounds to treat diabetic nephropathy, neuropathy and retinopathy. These patents and applications are being maintained throughout the territories in which they were filed. In March 2003, we returned the rights to seven other families of patents to Alfa Wassermann, the licensor of KRX-101, after determining that these seven families were not necessary to provide KRX-101 with intellectual property protection. In addition, as part of our effort to expand the indications and patent coverage for KRX-101, we have filed three new patent application families for novel indications for KRX-101 such as pre-eclampsia of pregnancy, inflammatory bowel disease and HIV-associated nephropathy. The key KRX-101 related patents and applications, if issued, expire at various times between 2012 and 2022. Currently, the use of KRX-101 to treat diabetic nephropathy is covered by a use patent that expires in 2014. However, based on provisions of the Patent Term Extension Act, we believe that we would qualify for a patent extension of at least three years, thereby extending the effective life of our principal patent through 2017. In addition, we have filed a patent application protecting the dosage form of KRX-101 that we believe will be most efficacious in the treatment of diabetic nephropathy and other conditions. Should this patent issue, we

believe that we will have effective patent protection through at least 2022. We therefore believe that we will have sufficient time to commercially exploit the inventions covered by the patents during the effective lives of the inventions.

KinAce Platform

We have an exclusive worldwide license to the KinAce technology, which includes one issued patent in the United States, one issued in Australia, and seventeen families of patent applications associated with our KinAce platform, which have been filed in various countries, including the United States, all the countries of the European Patent Convention, Japan, Canada, Australia, China and Israel.

The issued patents and the applications identify and claim large classes of peptides that modulate the activity of protein kinases, which encompass our lead drug candidates. In addition, the applications describe a wide variety of therapeutic uses for these classes of peptides, including the treatment of various cancers, diabetes, septic shock, multiple sclerosis and autoimmune diseases. The applications also identify and claim specific regions of these protein kinases upon which the selection of peptide drug candidates is based. The KinAce-related patents and patent applications, if such issue, will expire at various times between 2017 and 2022.

The SIB Technology

The SIB technology, to which we have an exclusive, worldwide license, is covered by a patent application, filed in the United States in 2002, which protects both the chemical structure of the SIB, the combinatorial library produced, and its usage in the modulation of protein activity. This patent application, if issued, will expire in 2023.

Other Intellectual Property Rights

We depend upon trademarks, trade secrets, know-how and continuing technological advances to develop and maintain our competitive position. To maintain the confidentiality of trade secrets and proprietary information, we require our employees, scientific advisors, consultants and collaborators, upon commencement of a relationship with us, to execute confidentiality agreements and, in the case of parties other than our research and development collaborators, to agree to assign their inventions to us. These agreements are designed to protect our proprietary information and to grant us ownership of technologies that are developed in connection with their relationship with us. These agreements may not, however, provide protection for our trade secrets in the event of unauthorized disclosure of such information.

Agreements

KRX-101

License Agreement. Our license with Alfa Wassermann SpA grants us the exclusive rights to KRX-101 for diabetic nephropathy, diabetic retinopathy and diabetic neuropathy in the United States, Canada, Japan, Australia, New Zealand, South Africa and Israel. The license entitles Alfa Wassermann to annual license fees, which, by the end of the license period, could total up to \$900,000 and fixed milestone payments of up to \$2,950,000. To date, we have paid \$450,000 in annual license fees and milestone payments. The license includes rights to at least 54 patents that have been registered in the above countries, rights in additional patent applications, and grants us exclusive, worldwide ownership of any novel indication for KRX-101 that we develop. Under the license, we must use our reasonable best efforts to commercialize and market KRX-101. Alfa Wassermann must pay us a royalty to the extent that it or its sub-licensees receive revenues from products that incorporate information or know-how developed by us. Alfa Wassermann must share a portion of the costs of data or intellectual property developed by us that it decides to utilize. Unless terminated for reason of breach or other customary termination provisions, the license terminates upon the later of the expiration of all underlying patent rights or ten years from the first commercial sale of KRX-101 by us. The most recent patent application was filed in June 2001, and, if granted, will expire in June 2022, subject to any extensions that may be granted.

KinAce Platform

License Agreement. Pursuant to a license with Children's Medical Center Corporation, referred to as CMCC, we have the exclusive worldwide right to commercialize the KinAce platform and practice the claims contained in the patents and patent applications owned by CMCC. The license gives us the right to develop, produce, manufacture, market and sublicense products based on the

patents and patent applications licensed to us by CMCC, any subsequently issued patents and future patent applications. Unless terminated for breach or other customary termination provisions, the license terminates upon the later of November 2014 or the expiration of the last patent covered by the license. The most recent patent application was filed in February 2002 and, if granted, will expire in February 2022, subject to the granting of any extensions.

Under the license, we must use our reasonable best efforts to commercialize and market one or more products based upon the KinAce technology. The license contains certain financing and development milestones. To date, we have met all of our milestones under this agreement. According to the remaining development milestones, we must file an IND application for a licensed product with the FDA (or a foreign equivalent) by December 31, 2003, and we must file an NDA, with the FDA, or a foreign equivalent, within six years from our first filing of an IND application. Should CMCC reasonably determine that we failed to meet any of the development milestones that remain to be fulfilled because we did not devote diligent efforts and adequate resources, the license could be terminated.

The SIB Technology

License Agreement. In January 2002, we obtained an exclusive worldwide license from the Yissum Research & Development Company of the Hebrew University of Jerusalem, or Yissum, covering patent applications and know-how underlying the SIB technology for the conversion of peptides and other existing drugs into small molecules that have the potential for oral delivery. The license gives us the right to develop, produce, manufacture, market and sublicense products based on Yissum's know-how and current and future patent applications and any subsequently issued patents. Unless terminated for breach or other customary termination provisions, the license continues in effect until the later of (i) the expiration of all valid claims of any licensed patent rights and research patent rights, or (ii) 13 years after the first commercial sale of a product.

Under the license, we must use commercially reasonable efforts to commercialize and market one or more products based upon the SIB technology. If we fail to devote such efforts to the development and commercialization of products based upon the SIB technology, the license could be terminated.

Sponsored Research Agreement. In January 2003, we terminated the Sponsored Research Agreement with Yissum and, accordingly, ceased making payments, after determining that the goals of that agreement were not being met as expected. We also terminated a related consulting agreement with Prof. Haim Gilon.

Manufacturing & Raw Materials

We have no manufacturing capabilities and do not currently intend to establish such capabilities. We have established a contract manufacturing relationship for KRX-101 but we do not believe that this relationship will be sufficient to meet our needs for clinical and commercial supplies. Accordingly, we are currently seeking to establish an alternative contract manufacturing relationship which we believe will be adequate to satisfy our current clinical and commercial supply needs. We expect to similarly rely on contract manufacturing relationships for any products that we may in-license in the future. However, there can be no assurance that we will be able to successfully contract with such manufacturers on terms acceptable to us, or at all. Additionally, as we seek to transition our manufacturing of KRX-101 to a new contract manufacturer, we will need to create a reproducible manufacturing process that will ensure consistent manufacture of KRX-101 across multiple batches and sources. As with all heparin-like compounds, the end product is highly sensitive to the manufacturing process utilized. Slight changes in process will often result in a different end product. Accordingly, the creation of a reproducible process will be required for the successful commercialization of KRX-101. There can be no assurance that we will be

successful in this endeavor.

The creation of a reproducible process will also be important if we choose to multi-source KRX-101. It is generally regarded as good practice to engage a back-up manufacturer to ensure uninterrupted supply of a product. We have discussed the issue of multi-sourcing with the FDA and they have indicated that they would likely permit such multi-sourcing provided the manufacturing process used by multiple manufacturers remains uniform.

Once we have secured one or more contract manufacturers for KRX-101 and for any products we may in-license in the future, we expect that we will rely on such contract manufacturers to produce our product candidates under current Good Manufacturing Practice regulations, or cGMP. We expect that our third-party manufacturers will have limited numbers of facilities in which our product candidates can be produced and will have limited experience in manufacturing our product candidates in quantities sufficient for conducting clinical trials or for commercialization.

Contract manufacturers are subject to ongoing periodic, unannounced inspection by the FDA, the Drug Enforcement Agency and corresponding state agencies to ensure strict compliance with cGMP, in addition to other governmental regulations and corresponding foreign manufacturing standards and government regulations. We do not have control over third party manufacturers' compliance with these regulations and standards, other than through contractual obligations.

If we need to change manufacturers, the FDA and corresponding foreign regulatory agencies must approve these new manufacturers in advance, which will involve testing and additional inspections to ensure compliance with FDA regulations and standards. Further, switching manufacturers may be difficult because the number of potential manufacturers is limited. It may be difficult or impossible for us to find a replacement manufacturer quickly or on terms acceptable to us, or at all.

Source materials for sulodexide, like all heparin-like compounds, are derived from porcine intestines. Long-term supplies for sulodexide could be affected by limitations in the supply of porcine intestines. Additionally, diseases affecting the world supply of pigs could have an actual or perceived negative impact on our ability to source, make or sell sulodexide, which could materially adversely affect the commercial success of KRX-101.

Employees

We currently have 24 employees. None of our employees are represented by a collective bargaining agreement, and we have never experienced a work stoppage. We consider our relations with our employees and consultants to be good.

Research and Development

Company-sponsored research and development expenses totaled \$6,686,000 in 2000, \$7,399,000 in 2001, and \$8,141,000 in 2002, respectively.

Government Regulation

Numerous governmental authorities in the United States and other countries regulate the manufacture and marketing of our drug candidates and our ongoing research and development activities. None of our drug candidates have been approved for sale in any market in which we have marketing rights. Before marketing in the United States, any drug developed by us must undergo rigorous preclinical testing and clinical trials and an extensive regulatory approval process implemented by the FDA under the Federal Food, Drug and Cosmetic Act. The FDA regulates, among other things, the preclinical and clinical testing, safety, efficacy, approval, manufacturing, record keeping, adverse event reporting, packaging, labeling, storage, advertising, promotion, export, sale and distribution of biopharmaceutical products.

The regulatory review and approval process is lengthy, expensive and uncertain. We will have to submit extensive preclinical and clinical data and supporting information to the FDA for each indication or use to establish a drug

candidate's safety and efficacy before we can secure FDA approval. The approval process takes many years, requires the expenditure of substantial resources and may involve ongoing requirements for post-marketing studies or surveillance. Before commencing clinical trials in

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humans, we must submit an IND to the FDA containing, among other things, preclinical data, chemistry, manufacturing and control information, and an investigative plan, and the FDA must allow the IND to become effective.

The FDA may permit expedited development, evaluation, and marketing of new therapies intended to treat persons with serious or life-threatening conditions for which there is an unmet medical need under its Fast Track Drug Development Program. A sponsor can apply for fast track designation at the time of submission of an IND, or at any time prior to receiving marketing approval of the New Drug Application, or NDA. To receive fast track designation, an applicant must demonstrate:

- o that the drug is intended to treat a serious or life-threatening condition;
- o that the drug is intended to treat a serious aspect of the condition; and
- o that the drug has the potential to address unmet medical needs, and this potential is being evaluated in the planned drug development program.

The FDA must respond to a request for fast track designation within 60 calendar days of receipt of the request. Over the course of drug development, a product in a fast track development program must continue to meet the criteria for fast track designation. Sponsors of products in fast track drug development programs must be in regular contact with the reviewing division of the FDA to ensure that the evidence necessary to support marketing approval will be developed and presented in a format conducive to an efficient review. Sponsors of products in fast track drug development programs ordinarily are eligible for priority review and also may be permitted to submit portions of an NDA to the FDA for review before the complete application is submitted. In 2001, KRX-101 received the fast track designation.

Sponsors of drugs designated as fast track also may seek approval under the FDA's accelerated approval regulations, which permits the FDA to grant accelerated approval based on a determination by the FDA that the effect on a surrogate endpoint is reasonably likely to predict clinical benefit. A surrogate endpoint is defined as a laboratory or physical sign that is used in therapeutic trials as a substitute for a clinically meaningful endpoint and that is expected to predict the effect of the therapy. However, requirements for submitting "substantial evidence" to demonstrate efficacy and for payment of user fees must still be met under accelerated approval regulations. Further, fast track and/or accelerated approvals will ordinarily be conditioned on post-market studies to verify the drug's clinical benefit and the relationship of the surrogate endpoint to clinical benefit. Approval of a fast track drug may be withdrawn in an expedited manner if, among other reasons, a post approval study fails to verify clinical benefit. In November of 2002, we announced that the FDA had agreed, in principle, to permit us to avail ourselves of the accelerated approval process. In essence, subject to any safety issues that might arise, the FDA conceptually agreed that KRX-101 could be approved upon showing substantial evidence of efficacy on a surrogate endpoint (proteinuria) in a single Phase 3 study, to be confirmed by a Phase 4 study. However, we have not reached an agreement with the FDA on the specific details of such approach and no assurance can be given that we will ever reach such agreement. Additionally, the subpart H process is complex and requires flawless execution. Many companies who have been granted the right to utilize an accelerated approval approach have failed to obtain approval.

Clinical testing must meet requirements for institutional review board oversight, informed consent and good clinical practices, and must be conducted pursuant to an IND, unless exempted.

Clinical trials are typically conducted in sequential phases. In Phase 1, the drug is administered to a small group of humans, either healthy volunteers or patients, to test for safety, dosage tolerance, absorption, metabolism, excretion, and clinical pharmacology. In Phase 2, a somewhat larger number of patients are studied to assess the efficacy of the product, to ascertain dose tolerance and the optimal dose range, and to gather additional data relating to safety and potential adverse events. In Phase 3, studies establish safety and efficacy in an expanded patient population. The FDA may require Phase 4 post-marketing studies to gather additional evidence of safety and efficacy.

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The length of time necessary to complete clinical trials varies significantly and may be difficult to predict. Clinical results are frequently susceptible to varying interpretations that may delay, limit or prevent regulatory approvals. Additional factors that can cause delay or termination of our clinical trials, or that may increase the costs of these trials, include:

- o slow patient enrollment due to the nature of the clinical trial plan, the proximity of patients to clinical sites, the eligibility criteria for participation in the study or other factors;
- o inadequately trained or insufficient personnel at the study site to assist in overseeing and monitoring clinical trials or delays in approvals from a study site's review board;
- o longer treatment time required to demonstrate efficacy or determine the appropriate product dose;
- o insufficient supplies of the drug candidate;
- o adverse medical events or side effects in treated patients; and
- o ineffectiveness of the drug candidate.

In addition, the FDA may place a clinical trial on hold or terminate it if it concludes that subjects are being exposed to an unacceptable health risk. Any drug is likely to produce some toxicity or undesirable side effects in animals and in humans when administered at sufficiently high doses and/or for a sufficiently long period of time. Unacceptable toxicity or side effects may occur at any dose level at any time in the course of studies in animals designed to identify unacceptable effects of a drug candidate, known as toxicological studies, or clinical trials of drug candidates. The appearance of any unacceptable toxicity or side effect could cause us or regulatory authorities to interrupt, limit, delay or abort the development of any of our drug candidates and could ultimately prevent approval by the FDA or foreign regulatory authorities for any or all targeted indications.

Before receiving FDA approval to market a product, we must demonstrate that the product is safe and effective for its intended use by submitting to the FDA an NDA containing the preclinical and clinical data that have been accumulated, together with chemistry and manufacturing and controls specifications and information, and proposed labeling, among other things. The FDA may refuse to accept a NDA for filing if certain content criteria are not met and, even after accepting a NDA, the FDA may often require additional information, including clinical data, before approval.

As part of the approval process, the FDA must inspect and approve each manufacturing facility. Among the conditions of approval is the requirement that a manufacturer's quality control and manufacturing procedures conform to current Good Manufacturing Practices, or cGMP. Manufacturers must expend time, money and effort to ensure compliance with cGMP, and the FDA conducts periodic inspections

to certify compliance. It may be difficult for our manufacturers or us to comply with the applicable cGMP and other FDA regulatory requirements. If we or our contract manufacturers fail to comply, then the FDA will not allow us to market products that have been affected by the failure.

If the FDA grants approval, the approval will be limited to those disease states, conditions and patient populations for which the product is safe and effective, as demonstrated through clinical studies. Further, a product may be marketed only in those dosage forms and for those indications approved in the NDA. Certain changes to an approved NDA, including, with certain exceptions, any changes to labeling, require approved supplemental applications before the drug may be marketed as changed. We will have a continuing obligation to comply with all conditions of approval and other regulatory requirements such as cGMP and adverse event reporting requirements. The nature of marketing claims that the FDA will permit us to make in the labeling and advertising of our products will be limited to those specified in an FDA approval, and the advertising of our products will be subject to comprehensive regulation by the FDA. Claims exceeding those that are approved will constitute a violation of the Federal Food, Drug, and Cosmetics Act. Violations of the Federal Food, Drug, and

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Cosmetics Act or regulatory requirements at any time during the product development process, approval process, or after approval may result in agency enforcement actions, including withdrawal of approval, recall, seizure of products, injunctions, fines and/or civil or criminal penalties. Any agency enforcement action could have a material adverse effect on us.

Should we wish to market our products outside the United States, we must receive marketing authorization from the appropriate regulatory authorities. The requirements governing the conduct of clinical trials, marketing authorization, pricing and reimbursement vary widely from country to country. At present, foreign marketing authorizations are applied for at a national level, although within the European Union, or EU, registration procedures are available to companies wishing to market a product in more than one EU member state. If the regulatory authority is satisfied that adequate evidence of safety, quality and efficacy has been presented, a marketing authorization will be granted. This foreign regulatory approval process involves all of the risks associated with FDA approval discussed above.

Failure to comply with applicable federal, state and foreign laws and regulations would likely have a material adverse effect on our business. In addition, federal, state and foreign laws and regulations regarding the manufacture and sale of new drugs are subject to future changes. We cannot predict what effect, if any, such changes might have on our business, but such changes could have a material adverse effect.

FORWARD-LOOKING STATEMENTS

Some of the statements in this Form 10-K and the Exhibits attached hereto contain forward-looking statements within Section 21E of the Securities Exchange Act of 1934, as amended. When used in this Form 10-K and the Exhibits, the words "anticipate," "believe," "estimate," "may," "expect" and similar expressions are generally intended to identify forward-looking statements. These forward-looking statements include, but are not limited to, statements about our:

- o expectations for increases in expenses;
- o expectations for increases in research and development and general and administrative expenses in order to develop new products and manufacture commercial quantities of products;
- o expectations for the development, manufacturing, and approval of KRX-101 or any other products we may acquire or in-license;
- o expectations for incurring additional capital expenditures to expand

our research and development capabilities;

- o expectations for generating revenue or becoming profitable on a sustained basis;
- o ability to enter into marketing and other partnership agreements;
- o ability to enter into product acquisition and in-licensing transactions;
- o estimate of the sufficiency of our existing cash and cash equivalents and investments to finance our operating and capital requirements;
- o expected losses; and
- o expectations for future capital requirements.

Our actual results could differ materially from those results expressed in, or implied by, these forward-looking statements. Potential risks and uncertainties that could affect our actual results include those discussed below under the heading "Risk Factors." Such risks and uncertainties also include the possibility that we may fail to establish and correctly apply our critical accounting policies and estimates to our financial statements. The list of factors that may affect future performance and the accuracy of forward-looking statements is illustrative, but by no means exhaustive.

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Accordingly, all forward looking-statements should be evaluated with the understanding of their inherent uncertainty.

Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, events, levels of activity, performance or achievements. We do not assume responsibility for the accuracy and completeness of the forward-looking statements.

We do not intend to update any of the forward-looking statements after the date of this Form 10-K to conform them to actual results.

RISK FACTORS

You should carefully consider the following risks and uncertainties. If any of the following occurs, our business, financial condition or operating results could be materially harmed. This could cause the trading price of our common stock to decline and you to lose all or part of your investment.

RISKS RELATED TO OUR BUSINESS

WE HAVE A LIMITED OPERATING HISTORY AND HAVE INCURRED SUBSTANTIAL OPERATING LOSSES SINCE OUR INCEPTION. WE EXPECT TO CONTINUE TO INCUR LOSSES IN THE FUTURE AND MAY NEVER BECOME PROFITABLE.

We have a limited operating history. You should consider our prospects in light of the risks and difficulties frequently encountered by early stage companies. In addition, we have incurred operating losses since our inception, expect to continue to incur operating losses for the foreseeable future and may never become profitable. As of December 31, 2002, we had an accumulated deficit of approximately \$45.5 million. As we expand our research and development efforts, we will incur increasing losses. We may continue to incur substantial operating losses even if we begin to generate revenues from our drug candidates or technologies.

We have not yet commercialized any products or technologies and cannot be sure we will ever be able to do so. Even if we commercialize one or more of our drug candidates or technologies we may not become profitable. Our ability to achieve

profitability depends on a number of factors, including our ability to complete our development efforts, obtain regulatory approval for our drug candidates and successfully commercialize our drug candidates and technologies.

IF WE ARE UNABLE TO SUCCESSFULLY BEGIN OR COMPLETE OUR CLINICAL TRIALS OF KRX-101, OUR ABILITY TO ACHIEVE OUR CURRENT BUSINESS STRATEGY WILL BE ADVERSELY AFFECTED.

Whether or not and how quickly we complete clinical trials is dependent in part upon the rate at which we are able to engage clinical trial sites and, thereafter, the rate of enrollment of patients. Patient enrollment is a function of many factors, including the size of the patient population, the proximity of patients to clinical sites, the eligibility criteria for the study and the existence of competitive clinical trials. If we experience delays in identifying and contracting with sites and/or in patient enrollment in our clinical trial program, we may incur additional costs and delay our development program for KRX-101.

Additionally, we have submitted a subpart H clinical development plan to the FDA for the clinical development of KRX-101 for diabetic nephropathy. A final agreement on the specifics of our clinical program for that development plan has not been agreed to with the FDA and we cannot give any assurance that an acceptable final agreement on the specifics of such clinical program will ever be reached with the FDA. In fact, based on the FDA's comments to our most recent submission, we believe that additional discussions with the FDA will be required prior to final agreement on the specifics of our subpart H accelerated approval clinical program. We cannot assure you that those discussions will take place or, if they do take place, the timing of such discussions or that the results of such discussions will be satisfactory to us. Additionally, the FDA has stated that based on the novelty of the approach that we have discussed with them, they would want to refer our proposed approach to the Cardio-Renal Advisory Committee.

Moreover, even if we are able to reach final agreement with the FDA regarding the specifics of an accelerated approval approach, no assurance can be given that we will be able to meet the requirements set forth in such agreement. The subpart H-process is complex and requires flawless execution. Many companies who have been granted the right to utilize an accelerated approval approach have failed to obtain approval. The clinical timeline, scope and consequent cost for the development of KRX-101 will depend, in part, on the final outcome of our discussions with the FDA. Moreover, negative or inconclusive results from the clinical trials we hope to conduct or adverse medical events could cause us to have to repeat or terminate the clinical trials. Accordingly, we may not be able to complete the clinical trials within an acceptable time frame, if at all.

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OUR DRUG CANDIDATES ARE IN EARLY STAGES OF DEVELOPMENT AND MAY NEVER RECEIVE THE NECESSARY REGULATORY APPROVALS.

Our drug candidates are in early stages of development. We have not received, and may never receive, regulatory approval for clinical trials for any of our drug candidates. We will need to conduct significant additional research and human testing before we can apply for product approval with the FDA or with regulatory authorities of other countries. Preclinical testing and clinical development are long, expensive and uncertain processes. Satisfaction of regulatory requirements typically depends on the nature, complexity and novelty of the product and requires the expenditure of substantial resources. Data obtained from preclinical and clinical tests can be interpreted in different ways, which could delay, limit or prevent regulatory approval. It may take us many years to complete the testing of our drug candidates and failure can occur at any stage of this process. Negative or inconclusive results or medical events during a clinical trial could cause us to delay or terminate our development efforts.

Clinical trials also have a high risk of failure. A number of companies in the

pharmaceutical industry, including biotechnology companies, have suffered significant setbacks in advanced clinical trials, even after achieving promising results in earlier trials. If we experience delays in the testing or approval process or if we need to perform more or larger clinical trials than originally planned, our financial results and the commercial prospects for our drug candidates may be materially impaired. In addition, we have limited experience in conducting and managing the clinical trials necessary to obtain regulatory approval in the United States and abroad and, accordingly, may encounter unforeseen problems and delays in the approval process.

BECAUSE WE LICENSE OUR PROPRIETARY TECHNOLOGIES, TERMINATION OF THESE AGREEMENTS WOULD PREVENT US FROM DEVELOPING OUR DRUG CANDIDATES.

We do not own KRX-101, our KinAce platform, or the SIB technology. We have licensed these technologies from others. These license agreements require us to meet development or financing milestones and impose development and commercialization due diligence on us. In addition, under these agreements we must pay royalties on sales of products resulting from licensed technologies and pay the patent filing, prosecution and maintenance costs related to the licenses. If we do not meet our obligations in a timely manner or otherwise breach the terms of our agreements, our licensors could terminate the agreements and we would lose the rights to KRX-101 and the KinAce and SIB technologies.

BECAUSE OUR REVISED BUSINESS MODEL IS BASED, IN PART, ON THE ACQUISITION OR IN-LICENSING OF ADDITIONAL CLINICAL PRODUCT CANDIDATES, IF WE FAIL TO ACQUIRE OR IN-LICENSE SUCH CLINICAL PRODUCT CANDIDATES, OUR LONG TERM BUSINESS PROSPECTS WILL BE SUBSTANTIALLY IMPAIRED.

As a major part of our new business strategy, we plan to acquire or in-license clinical stage product candidates. If we fail to acquire or in-license such product candidates, we may not achieve expectations of our future performance. Because we do not intend to engage in significant discovery research, we must rely on third parties to sell or license new product opportunities to us. Other companies, including some with substantially greater financial, development, marketing and sales resources, are competing with us to acquire or in-license such products or product candidates. We may not be able to acquire or in-license rights to additional products or product candidates on acceptable terms, if at all.

IF WE DO NOT ESTABLISH OR MAINTAIN DRUG DEVELOPMENT AND MARKETING ARRANGEMENTS WITH THIRD PARTIES, WE MAY BE UNABLE TO COMMERCIALIZE OUR TECHNOLOGIES INTO PRODUCTS.

We are an emerging company and do not possess all of the capabilities to fully commercialize our product candidates on our own. From time to time, we may need to contract with third parties to:

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- o assist us in developing, testing and obtaining regulatory approval for and commercializing some of our compounds and technologies; and
- o market and distribute our drug candidates.

For example, we are currently seeking third party partners to conduct further preclinical development of the KinAce platform and other early stage programs. There can be no assurance that we will be able to successfully enter into agreements with such partners on terms that are acceptable to us. If we are unable to successfully contract with third parties for these services when needed, or if existing arrangements for these services are terminated, whether or not through our actions, or if such third parties do not fully perform under these arrangements, we may have to delay, scale back or end one or more of our drug development programs or seek to develop or commercialize our technologies independently, which could result in delays. Further, such failure could result in the termination of license rights to one or more of our technologies. Moreover, if these development or marketing agreements take the form of a

partnership or strategic alliance, such arrangements may provide our collaborators with significant discretion in determining the efforts and resources that they will apply to the development and commercialization of products based on our technologies. Accordingly, to the extent that we rely on third parties to research, develop or commercialize products based on our technologies, we are unable to control whether such products will be scientifically or commercially successful.

WE RELY ON THIRD PARTIES TO MANUFACTURE OUR PRODUCTS. IF THESE THIRD PARTIES DO NOT SUCCESSFULLY MANUFACTURE OUR PRODUCTS OUR BUSINESS WILL BE HARMED.

We have no experience in manufacturing products for clinical or commercial purposes and do not have any manufacturing facilities. We intend to use third parties to manufacture our products for use in clinical trials and for future sales. We may not be able to enter into third party contract manufacturing agreements on acceptable terms, if at all.

Contract manufacturers often encounter difficulties in scaling up production, including problems involving production yields, quality control and assurance, shortage of qualified personnel, compliance with FDA and foreign regulations, production costs and development of advanced manufacturing techniques and process controls. Our third party manufacturers may not perform as agreed or may not remain in the contract manufacturing business for the time required by us to successfully produce and market our drug candidates. In addition, our contract manufacturers will be subject to ongoing periodic, unannounced inspections by the FDA and corresponding foreign governmental agencies to ensure strict compliance with, among other things, current good manufacturing practices, in addition to other governmental regulations and corresponding foreign standards. We will not have control over, other than by contract, third party manufacturers' compliance with these regulations and standards. Switching or engaging multiple manufacturers may be difficult because the number of potential manufacturers is limited and, particularly in the case of KRX-101, the process by which multiple manufacturers make the drug substance must be identical at each manufacturing facility. It may be difficult for us to find and engage replacement or multiple manufacturers quickly and on terms acceptable to us if at all. Moreover, if we need to change manufacturers, the FDA and corresponding foreign regulatory agencies must approve these manufacturers in advance, which will involve testing and additional inspections to ensure compliance with these regulations and standards.

If third-party manufacturers fail to deliver the required quantities of our drug candidates on a timely basis and at commercially reasonable prices, and if we fail to find replacement or multiple manufacturers on acceptable terms, our ability to develop and deliver products on a timely and competitive basis may be adversely impacted and our business, financial condition or results of operations will be materially harmed.

In the event that we are unable to obtain or retain third party manufacturers, we will not be able to commercialize our products as planned. The manufacture of our products for clinical trials and commercial purposes is subject to FDA and foreign regulations. No assurance can be given that our third party manufacturers will comply with these regulations or other regulatory requirements now or in the future.

While we currently have a contract manufacturing relationship for KRX-101, we do not believe that this relationship will be sufficient to meet our needs for clinical and commercial supplies. Accordingly, we are currently seeking to establish an alternative contract manufacturing relationship which we believe will be adequate to satisfy our current clinical and commercial supply needs. As we seek to transition our manufacturing of KRX-101 to a new contract manufacturer, we will need to create a reproducible manufacturing process that will ensure consistent manufacture of KRX-101 across multiple batches and sources. As with all heparin-like compounds, the end product is highly sensitive to the manufacturing process utilized. Slight changes in process will often

result in a different end product. Accordingly, the creation of a reproducible process will be required for the successful commercialization of KRX-101. There can be no assurance that we will be successful in this endeavor.

IF WE ARE NOT ABLE TO OBTAIN THE RAW MATERIAL REQUIRED FOR THE MANUFACTURE OF OUR LEAD PRODUCT CANDIDATE, KRX-101, OUR ABILITY TO DEVELOP AND MARKET THIS PRODUCT CANDIDATE WILL BE SUBSTANTIALLY HARMED.

Source materials for KRX-101, our lead product candidate, are derived from porcine intestines. Long-term supplies for KRX-101 could be affected by limitations in the supply of porcine intestines, over which we will have no control. Additionally, diseases affecting the world supply of pigs could have an actual or perceived negative impact on our ability, or the ability of our contract manufacturers, to source, make and/or sell KRX-101. Such negative impact could materially adversely affect the commercial success of KRX-101.

IF OUR COMPETITORS DEVELOP AND MARKET PRODUCTS THAT ARE MORE EFFECTIVE THAN OURS, OUR COMMERCIAL OPPORTUNITY MAY BE REDUCED OR ELIMINATED.

Our commercial opportunity will be reduced or eliminated if our competitors develop and market products that are more effective, have fewer side effects or are less expensive than our drug candidates. Other companies have products or drug candidates in various stages of preclinical or clinical development to treat diseases for which we are seeking to discover and develop drug candidates. Some of these potential competing drugs are further advanced in development than our drug candidates and may be commercialized earlier. Even if we are successful in developing effective drugs, our products may not compete successfully with products produced by our competitors.

Our competitors include pharmaceutical companies and biotechnology companies, as well as universities and public and private research institutions. In addition, companies active in different but related fields represent substantial competition for us. Many of our competitors have significantly greater capital resources, larger research and development staffs and facilities and greater experience in drug development, regulation, manufacturing and marketing than we do. These organizations also compete with us to recruit qualified personnel, attract partners for joint ventures or other collaborations, and license technologies that are competitive with ours. As a result, our competitors may be able to more easily develop technologies and products that would render our technologies or our drug candidates obsolete or noncompetitive.

IF WE LOSE OUR KEY PERSONNEL OR ARE UNABLE TO ATTRACT AND RETAIN ADDITIONAL PERSONNEL, OUR OPERATIONS COULD BE DISRUPTED AND OUR BUSINESS COULD BE HARMED.

Subsequent to the reorganization initiated in 2002, we currently have 24 full and part-time employees and several other persons working under research agreements or consulting agreements. To successfully develop our drug candidates, we must be able to attract and retain highly skilled personnel. In addition, if we lose the services of our current personnel, in particular, Michael S. Weiss, our Chairman and Chief Executive Officer, our ability to continue to develop our lead drug candidates could be materially impaired. In addition, while we have employment agreements with Mr. Weiss and our other key executives, these agreements would not prevent any of them from terminating their employment with us.

ANY ACQUISITIONS WE MAKE MAY NOT BE SCIENTIFICALLY OR COMMERCIALY SUCCESSFUL.

As part of our business strategy, we may effect acquisitions to obtain additional businesses, products, technologies, capabilities and personnel. If we make one or more significant acquisitions in which the consideration includes stock or other securities, your equity in us may be significantly diluted. If we make one or more

significant acquisitions in which the consideration includes cash, we may be

required to use a substantial portion of our available cash.

Acquisitions involve a number of operational risks, including:

- o difficulty and expense of assimilating the operations, technology and personnel of the acquired business;
- o inability to retain the management, key personnel and other employees of the acquired business;
- o inability to maintain the acquired company's relationship with key third parties, such as alliance partners;
- o exposure to legal claims for activities of the acquired business prior to acquisition;
- o diversion of management attention; and
- o potential impairment of substantial goodwill and write-off of in-process research and development costs, adversely affecting our reported results of operations.

RISKS RELATED TO OUR FINANCIAL CONDITION

IF WE ARE UNABLE TO OBTAIN ADDITIONAL FUNDS ON TERMS FAVORABLE TO US, OR AT ALL, OUR BUSINESS WOULD BE HARMED.

We expect to use rather than generate funds from operations for the foreseeable future. Based on our current plans, we believe our existing cash and cash equivalents will be sufficient to fund our operating expenses and capital requirements for at least the next two years. However, the actual amount of funds that we will need prior to or after that date will be determined by many factors, some of which are beyond our control. As a result, we may need funds sooner or in different amounts than we currently anticipate. These factors include:

- o the progress of our development activities;
- o the progress of our research activities;
- o the number and scope of our research programs;
- o our ability to establish and maintain current and new research and development and licensing arrangements;
- o our ability to achieve our milestones under our licensing arrangements;
- o the costs involved in enforcing patent claims and other intellectual property rights; and
- o the costs and timing of regulatory approvals.

If our capital resources are insufficient to meet future capital requirements, we will have to raise additional funds. If we are unable to obtain additional funds on terms favorable to us or at all, we may be required to cease or reduce our operating activities or sell or license to third parties some or all of our technology. If we raise additional funds by selling additional shares of our capital stock, the ownership interests of our stockholders will be diluted. If we raise additional funds through the sale or license of our technology, we may be unable to do so on terms favorable to us.

OUR STRATEGIC REORGANIZATION MAY NOT ACHIEVE THE RESULTS WE INTEND AND MAY HARM OUR BUSINESS.

In 2002, we implemented a reorganization plan, which included an approximate 70% reduction in headcount. Our workforce reduction consisted principally of research personnel primarily involved in early-stage projects, along with certain managerial and administrative staff. The implementation of our strategic reorganization has placed, and may continue to place, a significant strain on our managerial, operational, financial and other resources. If we are unable to implement our reorganization effectively, we may not successfully achieve our business strategy or reduce our costs. Moreover, we may be required to further reduce our headcount and/or program-specific expenditures, which could require us to further scale back or abandon any of our research and product development activities, or license to others products or technologies we would otherwise have sought to commercialize ourselves.

DUE TO THE RECENT REDUCTIONS IN STAFF AND ACTIVITY AT OUR RESEARCH AND DEVELOPMENT SUBSIDIARY LOCATED IN ISRAEL, CERTAIN TAX BENEFITS WE HAD RECEIVED FROM THE ISRAELI GOVERNMENT MAY BE REVOKED AND WE MAY BE REQUIRED TO REPAY SOME OR ALL OF SUCH TAX BENEFITS PREVIOUSLY RECEIVED.

In September 2001, one of our Israeli subsidiaries received the status of an "Approved Enterprise," a status which grants certain tax benefits in Israel in accordance with Paragraph 51 of the "Law for the Encouragement of Capital Investments, 1959". Through December 31, 2002, our Israeli subsidiary will have received tax benefits of approximately \$731,000 as a result of our subsidiary's status as an "Approved Enterprise." As a result of recent cost reductions, the staff and activity of this subsidiary have been materially reduced. In January 2003, the subsidiary notified the Israeli governmental authority of such reductions and requested that the program instituted prior to the cost reductions be approved. In February 2003, the Israeli governmental authority informed the subsidiary that it may be in non-compliance with the conditions of its Approved Enterprise program because of the indicated reductions. Nevertheless, the Israeli governmental authority wrote that any decision in connection with the subsidiary's Approved Enterprise program has been frozen until December 31, 2003, pending receipt of the subsidiary's future plans. In the event that our subsidiary's program is not approved as a result of these cost reductions, we may be liable to repay some or all of the tax benefits received to date, which could adversely affect our cash flow and results of operations.

RISKS RELATED TO OUR INTELLECTUAL PROPERTY

IF WE ARE UNABLE TO ADEQUATELY PROTECT OUR INTELLECTUAL PROPERTY THIRD PARTIES MAY BE ABLE TO USE OUR TECHNOLOGY, WHICH COULD ADVERSELY AFFECT OUR ABILITY TO COMPETE IN THE MARKET.

Our commercial success will depend in part on our ability and the ability of our licensors to obtain and maintain patent protection on our drug products and technologies and successfully defend these patents and technologies against third-party challenges. The patent positions of pharmaceutical and biotechnology companies can be highly uncertain and involve complex legal and factual questions. No consistent policy regarding the breadth of claims allowed in biotechnology patents has emerged to date. Accordingly, the patents we use may not be sufficiently broad to prevent others from practicing our technologies or from developing competing products. Furthermore, others may independently develop similar or alternative technologies or design around our patented technologies. The patents we use may be challenged, invalidated or fail to provide us with any competitive advantage.

We rely on trade secrets to protect technology where we believe patent protection is not appropriate or obtainable. However, trade secrets are difficult to protect. While we require our employees, collaborators and consultants to enter into confidentiality agreements, this may not be sufficient to adequately protect our trade secrets or other proprietary information. In addition, we share ownership and publication rights to data relating to some of our drug candidates with our research collaborators and scientific advisors. If we cannot maintain the confidentiality of this information, our ability to receive patent protection or protect our proprietary information will be at risk.

LITIGATION OR THIRD-PARTY CLAIMS OF INTELLECTUAL PROPERTY INFRINGEMENT COULD REQUIRE US TO SPEND SUBSTANTIAL TIME AND MONEY DEFENDING SUCH CLAIMS AND ADVERSELY AFFECT OUR ABILITY TO DEVELOP AND COMMERCIALIZE OUR PRODUCTS.

Third parties may assert that we are using their proprietary technology without authorization. In addition, third parties may have or obtain patents in the future and claim that our technologies infringe their patents. If we are required to defend against patent suits brought by third parties, or if we sue third parties to protect our patent rights, we may be required to pay substantial litigation costs, and our management's attention may be diverted from operating our business. In addition, any legal action against our licensors or us that seeks damages or an injunction of our commercial activities relating to the affected technologies could subject us to monetary liability and require our licensors or us to obtain a license to continue to use the affected technologies. We cannot predict whether our licensors or we would prevail in any of these types of actions or that any required license would be made available on commercially acceptable terms, if at all.

RISKS RELATED TO OUR COMMON STOCK

CONCENTRATION OF OWNERSHIP OF OUR COMMON STOCK AMONG OUR EXISTING EXECUTIVE OFFICERS, DIRECTORS AND PRINCIPAL STOCKHOLDERS MAY PREVENT NEW INVESTORS FROM INFLUENCING SIGNIFICANT CORPORATE DECISIONS.

As of December 31, 2002, our executive officers, directors and principal stockholders (including their affiliates) beneficially own, in the aggregate, approximately 43% of our outstanding common stock, including, for this purpose, currently exercisable options and warrants held by our executive officers, directors and principal stockholders. As a result, these persons, acting together, may have the ability to effectively determine the outcome of all matters submitted to our stockholders for approval, including the election and removal of directors and any merger, consolidation or sale of all or substantially all of our assets. In addition, such persons, acting together, may have the ability to effectively control our management and affairs. Accordingly, this concentration of ownership may harm the market price of our common stock by discouraging a potential acquirer from attempting to acquire us.

OUR STOCK PRICE COULD BE VOLATILE AND YOUR INVESTMENT COULD DECLINE IN VALUE.

The trading price of our common stock is likely to be highly volatile and subject to wide fluctuations in price in response to various factors, many of which are beyond our control. These factors include:

- o developments concerning our drug candidates;
- o announcements of technological innovations by us or our competitors;
- o new products introduced or announced by us or our competitors;
- o changes in financial estimates by securities analysts;
- o actual or anticipated variations in quarterly operating results;
- o expiration or termination of licenses, research contracts or other collaboration agreements;
- o conditions or trends in the regulatory climate and the biotechnology, pharmaceutical and genomics industries;
- o changes in the market valuations of similar companies; and
- o additions or departures of key personnel.

In addition, equity markets in general, and the market for biotechnology and life sciences companies in particular, have experienced extreme price and volume

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fluctuations that have often been unrelated or disproportionate to the operating performance of companies traded in those markets. These broad market and industry factors may materially affect the market price of our common stock, regardless of our development and operating performance. In the past, following periods of volatility in the market price of a company's securities, securities class-action litigation has often been instituted against that company. Such litigation, if instituted against us, could cause us to incur substantial costs to defend such claims and divert management's attention and resources, which could seriously harm our business.

THE GENERAL BUSINESS CLIMATE IS UNCERTAIN AND WE DO NOT KNOW HOW THIS WILL IMPACT OUR BUSINESS OR OUR STOCK PRICE.

Over the past several years, there have been dramatic changes in economic conditions, and the general business climate has been negatively impacted. Indices of the U.S. stock markets have fallen significantly and consumer confidence has waned. Compounding the general unease about the current business climate are the still unknown economic and political impacts of the September 11, 2001 terrorist attacks and hostilities abroad. We are unable to predict how any of these factors may affect our business or stock price.

ANTI-TAKEOVER PROVISIONS IN OUR CHARTER DOCUMENTS AND DELAWARE LAW COULD MAKE A THIRD-PARTY ACQUISITION OF US DIFFICULT. THIS COULD LIMIT THE PRICE INVESTORS MIGHT BE WILLING TO PAY IN THE FUTURE FOR OUR COMMON STOCK.

Provisions in our certificate of incorporation and bylaws could have the effect of making it more difficult for a third party to acquire, or of discouraging a third party from attempting to acquire, or control us. These provisions could limit the price that certain investors might be willing to pay in the future for shares of our common stock. Our certificate of incorporation allows us to issue preferred stock with rights senior to those of the common stock without any further vote or action by the stockholders and our bylaws eliminate the right of stockholders to call a special meeting of stockholders, which could make it more difficult for stockholders to effect certain corporate actions. These provisions could also have the effect of delaying or preventing a change in control. The issuance of preferred stock could decrease the amount of earnings and assets available for distribution to the holders of our common stock or could adversely affect the rights and powers, including voting rights, of such holders. In certain circumstances, such issuance could have the effect of decreasing the market price of our common stock.

ITEM 2. PROPERTIES.

We currently occupy space in New York, New York, Cambridge, Massachusetts, and Jerusalem, Israel. Our facilities in the United States consist of approximately 2,700 square feet of space at 750 Lexington Avenue, New York, New York 10022, where our executive offices are located, which we occupy pursuant to a space and expense sharing agreement with ACCESS Oncology, Inc., and 2,915 square feet of leased space at 101 Main Street, Cambridge, Massachusetts 02142, where our personnel who are responsible for coordinating our clinical development functions are located. Our research and development facilities located in Israel consist of 19,000 square feet of leased space in Jerusalem's primary high technology park, Har Hotzvim, Jerusalem, Israel 91236. Although we anticipate that our current facilities will be sufficient for our needs during the next several years, we expect additional space will be available for future expansion as necessary.

ITEM 3. LEGAL PROCEEDINGS.

We are not a party to any material legal or arbitration proceedings nor are we aware of any that are pending or threatened.

ITEM 4. SUBMISSION OF MATTERS TO A VOTE OF SECURITY HOLDERS.

We did not submit any matters to a vote of our security holders, through the solicitation of proxies or otherwise, during the fourth quarter of 2002.

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PART II

ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY AND RELATED STOCKHOLDER MATTERS.

Our common stock is listed on the Nasdaq National Market under the symbol "KERX". The following table sets forth the high and low closing sale prices of our common stock for the periods indicated.

	Common Stock Price	
	High	Low
YEAR ENDED DECEMBER 31, 2002		
Fourth Quarter	\$ 1.7600	\$1.0300
Third Quarter	\$ 2.3000	\$1.3000
Second Quarter	\$ 5.2000	\$1.9500
First Quarter	\$ 8.0000	\$4.7600

	Common Stock Price	
	High	Low
YEAR ENDED DECEMBER 31, 2001		
Fourth Quarter	\$ 8.1000	\$4.8600
Third Quarter	\$ 9.9500	\$5.6400
Second Quarter	\$10.5900	\$6.6875
First Quarter	\$10.6875	\$6.3750

As of December 31, 2002, there were 73 record holders of our common stock. We have never declared or paid any cash dividends on our common stock. We currently intend to retain any future earnings to fund the development and growth of our business. Therefore, we do not anticipate paying any cash dividends in the foreseeable future. Any future determination to pay dividends will be at the discretion of our board of directors.

USE OF PROCEEDS

On August 2, 2000, we completed an initial public offering of 4,600,000 shares of common stock at \$10.00 per share. The managing underwriters in the offering were WestLB Panmure Ltd. (in the United Kingdom) and Roth Capital Partners, Inc. (in the United States). The shares of common stock sold in the offering were registered under the Securities Act of 1933 on a Registration Statement on Form S-1 (Registration No. 333-37402) that was declared effective by the Securities and Exchange Commission on July 28, 2000. The proceeds to us from the offering, including the over-allotment option of 600,000 shares, after deducting underwriting discounts and commissions of approximately \$3.6 million and other offering expenses of approximately \$2.1 million, were approximately \$46.3 million. Of the net offering proceeds, through December 31, 2002, we have used the proceeds of our initial public offering as follows:

- o approximately \$5.4 million to fund clinical development for KRX-101 for diabetic nephropathy and other indications;
- o approximately \$3.5 million to fund preclinical development for KRX-123 for hormone-resistant prostate cancer;

- o approximately \$10.2 million to fund expansion of our KinAce platform and to further develop the compounds we have generated with it; and
- o approximately \$13.4 million to use as working capital and for general corporate purposes.

We intend to continue using the net proceeds of this offering to fund these ongoing activities, as appropriate. The timing and amounts of our actual expenditures will depend on several factors, many of which are outside our control, including the timing of our entry into collaboration agreements, the progress of our clinical trials, the

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progress of our research and development programs, the results of other preclinical and clinical studies and the timing and costs of regulatory approvals.

Until we use the net proceeds, we intend to invest the funds in short and long-term, investment-grade, interest-bearing instruments.

ITEM 6. SELECTED FINANCIAL DATA.

The following Statement of Operations Data for the years ended December 31, 2002, 2001, 2000, 1999 and 1998 and the Balance Sheet Data as of December 31, 2002, 2001, 2000, 1999 and 1998, are derived from our consolidated financial statements that have been audited by KPMG Somekh Chaikin, a member firm of KPMG International, independent certified public accountants. The financial data set forth below of Keryx Biopharmaceuticals, Inc. (a development stage company) and its predecessor company should be read in conjunction with the Management's Discussion and Analysis of Financial Condition and Results of Operations and the financial statements and notes included elsewhere in this Form 10-K.

	Years Ended December 31,				
	2002	2001	2000	1999	1998
	(in thousands, except per share data)				
Statements of Operations Data:					
Management fees from related party	\$ --	\$ --	\$ --	\$ --	\$ 66
Operating expenses:					
Research and development:					
Non-cash compensation	(1,382)	(17)	3,186	5,426	--
Other research and development	9,523	7,416	3,500	1,497	1,407
Total research and development	8,141	7,399	6,686	6,923	1,407
General and administrative:					
Non-cash compensation	(4)	139	2,668	588	--
Other general and administrative	4,108	4,302	3,232	1,225	1,011
Total general and administrative	4,104	4,441	5,900	1,813	1,011
Total operating expenses	12,245	11,840	12,586	8,736	2,418
Operating loss	(12,245)	(11,840)	(12,586)	(8,736)	(2,352)
Other income (expense):					
Financing income (expense), net	513	2,231	1,317	(257)	(157)
Taxes on Income	(51)	(197)	(220)	(10)	(30)
Net loss	\$ (11,783)	\$ (9,806)	\$ (11,489)	\$ (9,003)	\$ (2,539)
Basic and diluted loss per common share					
	\$ (0.59)	\$ (0.50)	\$ (0.89)	\$ (1.11)	\$ (0.31)

	As of December 31,				
	2002	2001	2000	1999	1998
	(in thousands)				
Balance Sheet Data:					
Cash and cash equivalents, interest receivable and investment securities	\$ 24,131	\$ 37,856	\$ 48,900	\$ 4,127	\$ 128
Working capital (deficiency)	22,350	35,235	37,908	3,984	(157)
Total assets	29,103	43,067	50,264	4,948	620
Long-term obligations	256	766	304	118	527
Total stockholders' equity (deficit)	26,330	39,215	48,867	4,436	(241)

We have never declared or paid any cash dividends on our common stock and do not currently anticipate paying cash dividends in the foreseeable future.

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS.

The following discussion should be read in conjunction with our financial statements and related notes included in this Form 10-K.

OVERVIEW

We were incorporated as a Delaware corporation in October 1998. We commenced operations in November 1999, following our acquisition of substantially all of the assets and certain of the liabilities of Partec Ltd., our predecessor company that began its operations in January 1997. Since commencing operations, our activities have been primarily devoted to developing our technologies, raising capital, purchasing assets for our corporate offices and laboratory facilities and recruiting personnel. We are a development stage company and have no product sales to date. Our major sources of working capital have been proceeds from various private placements of equity securities and from our initial public offering of 5,200,000 shares of common stock at \$10 per share. We have two wholly owned operating subsidiaries, Keryx Biomedical Technologies Ltd. and Keryx (Israel) Ltd., which engage in research and development activities and administrative activities in Israel.

Research and development expenses consist primarily of salaries and related personnel costs, fees paid to consultants and outside service providers for laboratory development, facilities-related and other expenses relating to the design, development, testing, and enhancement of our product candidates, as well as expenses related to in-licensing or acquisition of new product candidates. We expense our research and development costs as they are incurred.

General and administrative expenses consist primarily of salaries and related expenses for executive, finance and other administrative personnel, recruitment expenses, professional fees and other corporate expenses, including business development, general legal activities and facilities related expenses.

Our results of operations include non-cash compensation expense as a result of the grants of stock, stock options and warrants. Compensation expense for options and warrants granted represents the intrinsic value (the difference between the stock price of the common stock and the exercise price of the options or warrants) of the options and warrants at the date of grant, as well as the difference between the stock price at reporting date and the exercise price, in the case where a measurement date has not been reached. We account for stock-based employee and director compensation arrangements in accordance with

the provisions of Accounting Principles Board Opinion No. 25, "Accounting for Stock Issued to Employees," and FASB issued Interpretation No. 44, "Accounting for Certain Transactions Involving Stock Compensation," as allowed by Statement of Financial Accounting Standards No. 123, "Accounting for Stock-Based Compensation" (SFAS No. 123), and comply with the disclosure provisions of SFAS No. 123 and SFAS No. 148. Compensation for options and warrants granted to consultants and

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other third-parties has been determined in accordance with SFAS No. 123, as the fair value of the equity instruments issued, and according to the guidelines set forth in EITF 96-18, "Accounting for Equity Instruments that are Issued to Other than Employees for Acquiring, or in Conjunction with Selling, Goods or Services." The compensation cost is recorded over the respective vesting periods of the individual stock options and warrants. The expense is included in the respective categories of expense in the statement of operations. We expect to record additional non-cash compensation expense in the future, which may be significant. However, because some of the options and warrants issued to employees, consultants and other third-parties either do not vest immediately or vest upon the achievement of certain milestones, the total expense is uncertain.

CRITICAL ACCOUNTING POLICIES

The discussion and analysis of our financial condition and results of operations are based upon our consolidated financial statements, which have been prepared in accordance with accounting principles generally accepted in the United States. The preparation of these financial statements requires us to make estimates and judgments that affect the reported amount of assets and liabilities and related disclosure of contingent assets and liabilities at the date of our financial statements and the reported amounts of revenues and expenses during the applicable period. Actual results may differ from these estimates under different assumptions or conditions.

We define critical accounting policies as those that are reflective of significant judgments and uncertainties, and may potentially result in materially different results under different assumptions and conditions. In applying these critical accounting policies, our management uses its judgment to determine the appropriate assumptions to be used in making certain estimates. These estimates are subject to an inherent degree of uncertainty. Our critical accounting policies include the following:

Foreign Currency Translation. In preparing our consolidated financial statements, we translate non-US dollar amounts in the financial statements of our Israeli subsidiaries into US dollars. Under the relevant accounting guidance the treatment of any gains or losses resulting from this translation is dependent upon management's determination of the functional currency. The functional currency is determined based on management's judgment and involves consideration of all relevant economic facts and circumstances affecting the subsidiaries. Generally, the currency in which a subsidiary transacts a majority of its transactions, including billings, financing, payroll and other expenditures would be considered the functional currency. However, any dependency upon the parent and the nature of the subsidiary's operations must also be considered. If any subsidiary's functional currency is deemed to be the local currency, then any gain or loss associated with the translation of that subsidiary's financial statements would be included as a separate part of our stockholders' equity under the caption "cumulative translation adjustment." However, if the functional currency of the subsidiary is deemed to be the US dollar then any gain or loss associated with the translation of these financial statements would be included within our statement of operations. Based on our assessment of the factors discussed above, we consider the US dollar to be the functional currency for each of our Israeli subsidiaries because the majority of the transactions of each subsidiary, including billings, payroll, taxes and other major obligations, are conducted using the US dollar. Therefore all gains and losses from translations are recorded in our statement of operations. Had we used the Israeli currency as the functional currency of our subsidiaries,

exchange gains and losses would have been treated as other comprehensive income, included in a statement of comprehensive income. We believe that the amount of such comprehensive income in 2002 would not have been material.

Accounting For Income Taxes. As part of the process of preparing our consolidated financial statements we are required to estimate our income taxes in each of the jurisdictions in which we operate. This process involves management estimating our actual current tax exposure together with assessing temporary differences resulting from differing treatment of items for tax and accounting purposes. These differences result in deferred tax assets and liabilities, which are included within our consolidated balance sheet. We must then assess the likelihood that our deferred tax assets will be recovered from future taxable income and, to the extent we believe that recovery is not likely, we must establish a valuation allowance. To the extent we establish a valuation allowance or increase this allowance in a period, we must

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include an expense within the tax provision in the statement of operations. Significant management judgment is required in determining our provision for income taxes, our deferred tax assets and liabilities and any valuation allowance recorded against our net deferred tax assets. We have fully offset our US deferred tax asset with a valuation allowance. Our lack of earnings history and the uncertainty surrounding our ability to generate taxable income prior to the expiration of such deferred tax assets were the primary factors considered by management in establishing the valuation allowance. The deferred tax asset in our financial statements relates to our wholly owned Israeli subsidiaries. These subsidiaries continue to generate taxable income in respect of services provided within the group, and therefore we believe that the deferred tax asset relating to the Israeli subsidiaries will be realized. In the event that our subsidiaries' services would not generate such taxable income, we would need to write off the deferred tax asset as an expense in the statement of operations. It should be noted that as the income is derived from companies within the consolidated group, it is eliminated upon consolidation.

In September 2001, one of our Israeli subsidiaries received the status of an "Approved Enterprise" which grants certain tax benefits in Israel in accordance with Paragraph 51 of the "Law for the Encouragement of Capital Investments, 1959". Through December 31, 2002, this Israeli subsidiary will have received tax benefits of approximately \$731,000 as a result of the subsidiary's status as an "Approved Enterprise." In June 2002, the subsidiary received formal temporary notification that it had met the requirements for implementation of the benefits under this program. In January 2003, the subsidiary notified the Israeli governmental authority of reductions in its staff and operations that had formed the basis of its Approved Enterprise program, and requested that the program instituted prior to the cost reductions be approved. In February 2003, the Israeli governmental authority informed this subsidiary that it may be in non-compliance with the conditions of its Approved Enterprise program because of the indicated reductions. Nevertheless, the Israeli governmental authority indicated that it will defer any decision in connection with the subsidiary's Approved Enterprise program until December 31, 2003, and will allow it until such date to meet the objectives of its original program. In the event that the subsidiary's program is not approved as a result of these cost reductions, we may be liable to repay some or all of the tax benefits received to date, which could adversely affect our cash flow and results of operations. The Company is of the opinion that the reduction of its activity should not have a bearing on benefits received as of December 31, 2002.

Stock Compensation. During historical periods, we have granted options to employees, directors and consultants, as well as warrants to other third parties. In applying SFAS No. 123, we use the Black-Scholes pricing model to calculate the fair market value of our options and warrants. The Black-Scholes model takes into account volatility in the price of our stock, the risk-free interest rate, the estimated life of the option or warrant, the closing market price of our stock and the exercise price. We have assumed for the purposes of the Black-Scholes calculation that an option will be exercised one year after it

fully vests. We base our estimates of our stock price volatility on the volatility during the year prior to the grant of the option or warrant. However, this estimate is neither predictive nor indicative of the future performance of our stock. For purposes of the calculation, it was assumed that no dividends will be paid during the life of the options and warrants.

In accordance with EITF 96-18, "Accounting for Equity Instruments that are Issued to Other than Employees for Acquiring, or in Conjunction with Selling, Goods or Services," total compensation expense for options issued to consultants is determined at the "measurement date." The expense is recognized over the vesting period for the options. Until the measurement date is reached, the total amount of compensation expense remains uncertain. We record option compensation based on the fair value of the options at the reporting date. These options are then revalued, or the total compensation is recalculated based on the then current fair value, at each subsequent reporting date. This results in a change to the amount previously recorded in respect of the option grant and additional expense or a negative expense may be recorded in subsequent periods based on changes in the assumptions used to calculate fair value, such as changes in market price, until the measurement date is reached and the compensation expense is determined.

Impairment Of Long-Lived Assets And Long-Lived Assets To Be Disposed Of. We have adopted SFAS No. 144 from January 1, 2002, "Accounting for the Impairment or Disposal of Long-Lived Assets" (SFAS No. 144). This Statement requires that long-lived assets

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be reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. Recoverability of assets to be held and used is measured by a comparison of the carrying amount of an asset to future cash flows expected to be generated by the asset or used in its disposal. If the carrying amount of an asset exceeds its estimated future cash flows, an impairment charge is recognized. Assets to be disposed of are reported at the lower of the carrying amount or fair value less costs to sell. We have conducted such a review in light of our restructuring in 2002. We believe that based upon this review of our future net cash flow estimates for each of drug candidates and our continued use of our assets, there is no need to record an impairment charge as of December 31, 2002.

Notwithstanding this conclusion, as a result of additional restructuring of our activities in our Jerusalem laboratory facility in March 2003, we believe that we will need to record an impairment charge during the first quarter of 2003, although the amount of this impairment charge and other costs associated with the cessation of our Jerusalem laboratory activities cannot be determined at this time. At December 31, 2002, the carrying value of the assets, including fixed assets and patents, that could be impaired, thus resulting in a non-cash write down, totaled approximately \$3,755,000. We do not believe at this time that we will have to write down such assets completely.

RESTRUCTURING

We implemented a strategic reorganization, initiated in August 2002 and continuing through year's end. The reorganization included staff reductions and pay cuts of 5-10%. The program was designed to substantially reduce our early stage research expenditures so that we could focus primarily on our lead product candidate KRX-101 for the treatment of diabetic nephropathy, as well as to provide us with the resources to potentially in-license additional product candidates. The reorganization included a 46 person, or approximate 70%, reduction in our work force, including senior management, administrative staff, and research personnel involved in early stage projects. As of December 31, 2002, 25 employees had left under our restructuring plan. As part of our focus on the core indication of our lead product, we also announced that we had terminated our AIDS-related kidney disease (HIVAN) clinical trial of KRX-101.

Through December 31, 2002, we had total accumulated expenses of approximately

\$1,114,000 for severance benefits for employees terminated under our reorganization. Consequently, we took a charge of approximately \$228,000 approximately \$149,000, of which was included in general and administrative expenses and approximately \$79,000 of which was included in research and development expenses. The remaining amount of approximately \$886,000 had been expensed as part of our ongoing accrual for employee severance benefits in accordance with Israeli law.

As of December 31, 2002, 25 employees have left under our restructuring plan and approximately \$158,000 of severance benefits have been paid.

As of December 31, 2002, approximately \$956,000 in severance obligations related to our restructuring is included in accrued compensation and related liabilities. A portion of this amount was formerly included in liability in respect of employee severance obligations and was reclassified to current liabilities after it became short-term in nature. With respect to this liability, we funded deposits in respect to employee severance obligations of approximately \$299,000 that was reclassified to current assets as it will be redeemed in the short term.

In March 2003, we gave notice of termination to an additional 5 employees, all based in our Jerusalem laboratory facility. As a result, we may also incur other costs related to the further restructuring of our research activities. The portion of our lease obligations relating to the Jerusalem laboratory facility amounts to approximately \$792,000 through the end of 2005. Costs of severance benefits for the employees who received notice of termination in March 2003 are accrued to balance sheet date as part of the liability in respect of employee severance benefits in accordance with Israeli law.

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RESULTS OF OPERATIONS

Years Ended December 31, 2002 and 2001

Revenue. We did not have any revenue for the years ended December 31, 2002 and December 31, 2001.

Research and Development Expenses. Research and development expenses, including non-cash compensation expense related to stock option grants and warrant issuances, increased by \$742,000 to \$8,141,000 for the year ended December 31, 2002, as compared to expenses of \$7,399,000 for the year ended December 31, 2001. The increase in research and development expenses was due primarily to increased licensing costs for the in-licensing of Small Integrated Building-blocks ("SIB") technology as well as for the in-licensing of the worldwide rights for the manufacturing process of KRX-101, increased personnel and related costs, increased facilities-related costs and increased non-manufacturing clinical development costs associated with KRX-101. These increases were partially offset by a decline in manufacturing expenses associated with the KRX-101 clinical trial materials as well as a result of the implementation of cost control measures initiated in August 2002.

We expect our research and development costs to decrease over the next year as the result of the implementation of our strategic reorganization.

Non-cash compensation expense related to stock option grants and warrant issuances was negative \$1,382,000 for the year ended December 31, 2002 as compared to negative \$17,000 for the year ended December 31, 2001. This negative non-cash compensation expense was primarily due to the revaluation of previously issued options and warrants to consultants and other third parties as a result of the decline in our stock price pursuant to the provisions of SFAS No. 123 and EITF 96-18.

General and Administrative Expenses. General and administrative expenses, including non-cash compensation expense related to stock option grants and warrant issuances, decreased by \$337,000 to \$4,104,000 for the year ended

December 31, 2002, as compared to expenses of \$4,441,000 for the year ended December 31, 2001. The decrease in general and administrative expenses was due primarily to a reduction in outside consulting service costs and as a result of the implementation of cost control measures initiated in August 2002, partially offset by increased severance expenses.

We expect our general and administrative expenses to decrease over the next year as the result of the implementation of our strategic reorganization initiated in August 2002.

Non-cash compensation expense related to stock option grants was negative \$4,000 for the year ended December 31, 2002 as compared to \$139,000 for year ended December 31, 2001. This decrease in non-cash compensation expense was primarily due to the revaluation of previously issued options and warrants to consultants and other third parties as a result of the decline in our stock price pursuant to SFAS No. 123 and EITF 96-18.

Interest Income (Expense), Net. Interest income, net, decreased by \$1,718,000 to \$513,000 for the year ended December 31, 2002, as compared to income of \$2,231,000 for the year ended December 31, 2001. The decrease during the year resulted from a lower level of invested funds and the general decline in market interest rates when compared to last year.

Income Taxes. Income tax expense decreased by \$146,000 to \$51,000 for the year ended December 31, 2002, as compared to an expense of \$197,000 for year ended December 31, 2001. The decrease in income tax expense is attributable to the lower income tax rate used for one of our subsidiaries that attained Israeli Approved Enterprise status (see Note 9 to our audited Consolidated Financial Statements). In addition, pursuant to receiving formal temporary notification that it met the requirements for implementation of benefits under the Approved Enterprise, the subsidiary reversed an income tax liability recorded prior to having received this notification. As of December 31, 2002, we have recorded a deferred tax asset, arising from "book" and "tax" timing differences, and a deferred tax liability against income taxes for the period then ended arising from the potential distribution by the subsidiary of a cash dividend out of retained earnings which were tax exempt due to the Approved Enterprise

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status. Income tax expense is attributable to taxable income from the continuing operations of our subsidiaries in Israel. This income is eliminated upon consolidation of our financial statements.

Impact of Inflation. The effects of inflation and changing prices on our operations were not significant during the periods presented.

Years Ended December 31, 2001 and 2000

Revenue. We did not have any revenue for the years ended December 31, 2001 and December 31, 2000.

Research and Development Expenses. Research and development expenses increased by \$713,000 to \$7,399,000 for the year ended December 31, 2001, as compared to expenses of \$6,686,000 for the year ended December 31, 2000. This increase in research and development expenses was primarily due to growth in personnel, manufacturing expenses associated with KRX-101 clinical trial inventory and increased preclinical work to advance our KinAce platform. Non-cash compensation expense related to stock option grants was negative \$17,000 for the year ended December 31, 2001 as compared to \$3,186,000 for the year ended December 31, 2000. This negative non-cash compensation expense was primarily due to the revaluation of previously issued options to consultants pursuant to the provisions of SFAS No. 123 and EITF 96-18.

General and Administrative Expenses. General and administrative expenses decreased by \$1,459,000 to \$4,441,000 for the year ended December 31, 2001, as compared to expenses of \$5,900,000 for the year ended December 31, 2000. This

decrease in general and administrative expenses was primarily due to a decrease in non-cash compensation offset by increased personnel and management expenses, and increased investments in business development and facilities required to support our growth. Non-cash compensation expense related to stock option grants was \$139,000 for the year ended December 31, 2001 as compared to \$2,668,000 for the year ended December 31, 2000.

Interest Income (Expense), Net. Interest income, net, increased by \$914,000 to \$2,231,000 for the year ended December 31, 2001, as compared to income of \$1,317,000 for the year ended December 31, 2000. The increase resulted from a higher level of invested funds due primarily to proceeds from our initial public offering that closed in August 2000, that were invested for a full year in 2001.

Income Taxes. Income tax expense decreased by \$23,000 to \$197,000 for the year ended December 31, 2001, as compared to an expense of \$220,000 for the year ended December 31, 2000. Income tax expense is attributable to taxable income from the continuing operations of our subsidiaries in Israel. As of December 31, 2001, we have recorded a deferred tax asset against income taxes, arising from "book" and "tax" timing differences, for the period then ended. Income taxes are related to the taxable income of our Israeli subsidiaries. This income is eliminated upon consolidation of our financial statements.

Impact of Inflation. The effects of inflation and changing prices on our operations were not significant during the periods presented.

LIQUIDITY AND CAPITAL RESOURCES

We have financed our operations from inception primarily through various private and public financings. As of December 31, 2002, we had received net proceeds of \$46.3 million from our initial public offering, and \$11.6 million from private placement issuances of common and preferred stock, including \$2.9 million raised through the contribution by holders of their notes issued by our predecessor company.

As of December 31, 2002, we had \$24.1 million in cash, cash equivalents, interest receivable and short-term securities, a decrease of \$13.8 million from December 31, 2001. Cash used in operating activities for the year ended December 31, 2002 was \$12.3 million as compared to \$7.3 million for the year ended December 31, 2001. This increase in cash used in operating activities was due primarily to increased expenses associated with the expansion of our business. Net cash provided by investing

activities was \$2.4 million for the year ended December 31, 2002. Cash provided by investing activities was primarily the result of the maturity of short-term securities, partially offset by capital expenditures.

We have incurred negative cash flow from operations since our inception. We anticipate incurring negative cash flow from operations for the foreseeable future. We have spent, and expect to continue to spend, substantial amounts in connection with implementing our business strategy, including our planned product development efforts and our clinical trials.

As of December 31, 2002, we have known contractual obligations, commitments and contingencies of \$2,901,000. Of this amount, \$1,684,000 relates to research and development agreements, of which \$1,184,000 is due during 2003, a total of \$500,000 is due during 2004 and 2005, and \$50,000 relates to other agreements due during 2003. The additional \$1,167,000 relates to operating lease obligations, of which \$407,000 is due during 2003, with the remaining \$760,000 due during 2004 and 2005.

Contractual Obligations	Payments Due by Period				
	Total	Less than 1 Year	1-3 Years	4-5 Years	After 5 Years

Research & development agreements	\$ 1,684,000	\$ 1,184,000	\$ 500,000	--	--
Other agreements	50,000	50,000	--	--	--
Operating leases	1,167,000	407,000	760,000	--	--
Total contractual cash obligations	\$ 2,901,000	\$ 1,641,000	\$ 1,260,000	--	--

In January 2003, we terminated several sponsored research agreements. As a result of such terminations, we have reduced our future research and development commitments by approximately \$948,000.

Additionally, we have undertaken to make contingent milestone payments to certain of our licensors of up to approximately \$5.0 million over the life of the licenses, which expire from 2017 to 2023. In certain cases, such payments will reduce any royalties due on sales of related products. In the event that the milestones are not achieved, we remain obligated to pay one licensor \$50,000 annually until the license expires.

We believe that our \$24.1 million in cash, cash equivalents, interest receivable and short-term securities as of December 31, 2002 will be sufficient to enable us to meet our planned operating needs and capital expenditures for at least the next 24 months. Our cash and cash equivalents as of December 31, 2002 are invested in highly liquid investments such as cash, money market accounts and short-term US corporate debt securities. As of December 31, 2002, we are unaware of any known trends or any known demands, commitments, events, or uncertainties that will, or that are reasonably likely to, result in a material increase or decrease in our required liquidity. We expect that our liquidity needs throughout 2003 will continue to be funded from existing cash, cash equivalents, and short-term securities.

Our forecast of the period of time through which our cash, cash equivalents and short-term securities will be adequate to support our operations is a forward-looking statement that involves risks and uncertainties. The actual amount of funds we will need to operate is subject to many factors, some of which are beyond our control.

These factors include the following:

- o the timing of expenses associated with product development of our proprietary product candidates, especially KRX-101, and including those expected to be in-licensed, partnered or acquired;

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- o the timing of the in-licensing, partnering and acquisition of new product opportunities;
- o the progress of the development efforts of parties with whom we have entered into research and development agreements;
- o our ability to achieve our milestones under licensing arrangements;
- o the costs involved in prosecuting and enforcing patent claims and other intellectual property rights; and
- o the amount of any funds expended to repurchase our common stock.

We have based our estimate on assumptions that may prove to be wrong. We may need to obtain additional funds sooner or in greater amounts than we currently anticipate. Potential sources of financing include strategic relationships, public or private sales of our stock or debt and other sources. We may seek to access the public or private equity markets when conditions are favorable due to our long-term capital requirements. We do not have any committed sources of financing at this time, and it is uncertain whether additional funding will be available when we need it on terms that will be acceptable to us, or at all. If

we raise funds by selling additional shares of common stock or other securities convertible into common stock, the ownership interest of our existing stockholders will be diluted. If we are not able to obtain financing when needed, we may be unable to carry out our business plan. As a result, we may have to significantly limit our operations and our business, financial condition and results of operations would be materially harmed.

RECENTLY ISSUED ACCOUNTING STANDARDS

In July 2002, the FASB issued SFAS No. 146, "Accounting for Costs Associated with Exit or Disposal Activities" ("SFAS No. 146"). SFAS No. 146 nullifies EITF 94-3. According to SFAS 146, commitment to a plan to exit an activity or dispose of long-lived assets will no longer be enough to record a one-time charge for most anticipated costs. Instead, companies will record exit or disposal costs when they are "incurred" and can be measured at fair value, and they will subsequently adjust the recorded liability for changes in estimated cash flows. SFAS No. 146 revises accounting for specified employee and contract terminations that are part of restructuring activities. SFAS No. 146 is effective for exit or disposal activities initiated after December 31, 2002, however earlier adoption is encouraged. We are required to adopt SFAS No. 146 on January 1, 2003. We believe that the adoption of SFAS No. 146 will not have a significant impact on our consolidated financial statements.

In December 2002, the FASB issued SFAS No. 148, "Accounting for Stock Based Compensation - Transition and Disclosure - an amendment of FASB statement No. 123" ("SFAS No. 148"). SFAS No. 148 permits two additional transition methods for entities that adopt the fair value based method of accounting for stock-based employee compensation. The Statement also requires new disclosures about the ramp-up effect of stock-based employee compensation on reported results. The Statement also requires that those effects be disclosed more prominently by specifying the form, content, and location of those disclosures. The transition guidance and annual disclosure provisions of SFAS No. 148 are effective for fiscal years ending after December 15, 2002, with earlier application permitted in certain circumstances. The interim disclosure provisions are effective for financial reports containing financial statements for interim periods beginning after December 15, 2002. We have adopted the disclosure requirements applicable to fiscal years ending after December 15, 2002, and are considering our position with regard to the adoption of SFAS No. 148.

In November 2002, the Financial Accounting Standards Board issued Interpretation No. 45, Guarantor's Accounting and Disclosure Requirements for Guarantees, Including Indirect Guarantees of Indebtedness of Others (hereinafter the Interpretation), which addresses, among other things, the disclosure to be made by a guarantor in its interim and annual financial statements about its obligations under guarantees. These disclosure requirements are included in Note 10 to the consolidated financial statements. The Interpretation also requires the recognition of a liability by a guarantor at the inception of certain guarantees. The Interpretation requires the guarantor to recognize a liability for the non-contingent component of the guarantee, which is the obligation to stand ready to perform in the event that specified

triggering events or conditions occur. The initial measurement of this liability is the fair value of the guarantee at inception. The recognition of the liability is required even if it is not probable that payments will be required under the guarantee or if the guarantee was issued with a premium payment or as part of a transaction with multiple elements. We are evaluating the anticipated effect of the recognition provisions of FIN 45 on our consolidated financial statements.

As noted above, we have adopted the disclosure requirements of the Interpretation (see Note 10) and will apply the recognition and measurement provisions for all guarantees entered into or modified after December 31, 2002.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURE ABOUT MARKET RISK.

Interest Rate Risk. The primary objective of our investment activities is to preserve principal while at the same time maximizing the income we receive from our investments without significantly increasing risk. Some of the securities that we invest in may have market risk. This means that a change in prevailing interest rates may cause the principal amount of the investment to fluctuate. For example, if we hold a security that was issued with a fixed interest rate at the then-prevailing rate and the prevailing interest rate later rises, the principal amount of our investment will probably decline. We maintain our portfolio in cash equivalents and short- and long-term interest bearing securities, including corporate debt, money market funds and government debt securities. The average duration of all of our investments in 2002 was less than one year. Due to the short-term nature of these investments, we believe we have no material exposure to interest rate risk arising from our investments. Therefore, no quantitative tabular disclosure is required.

Foreign Currency Rate Fluctuations. While our Israeli subsidiaries transact business in New Israel Shekels or NIS, most operating expenses and commitments are linked to the US dollar. As a result, there is currently minimal exposure to foreign currency rate fluctuations. Any foreign currency revenues and expenses are translated using the daily average exchange rates prevailing during the year and any transaction gains and losses are included in net income. In the future, our subsidiaries may enter into NIS-based commitments that may expose us to foreign currency rate fluctuations.

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA.

Our Consolidated Financial Statements as of December 31, 2002 are presented beginning on page F-1 of this Annual Report on Form 10-K. The following table sets forth unaudited selected operating results for each of the four fiscal quarters in the years ended December 31, 2002 and December 31, 2001. We believe that the following selected quarterly information includes all adjustments, consisting only of normal, recurring adjustments, that we consider necessary to present this information fairly. You should read this financial information in conjunction with the financial statements and related notes appearing elsewhere in this Annual Report on Form 10-K. Our results of operations have fluctuated in the past and are likely to continue to fluctuate greatly from quarter to quarter in the future. Therefore, results of operations for any previous periods are not necessarily indicative of results of operations to be recorded in the future.

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	2002			
	Mar. 31	June 30	Sept. 30	Dec. 31
	(in thousands except per share data)			
Operating expenses:				
Research and development:				
Non-cash compensation	\$ (580)	\$ (764)	\$ (195)	\$ 157
Other research and development	2,943	2,316	2,306	1,958
Total research and development	2,363	1,552	2,111	2,115
General and administrative:				
Non-cash compensation	(6)	(2)	2	2
Other general and administrative	1,310	1,082	952	764
Total general and administrative	1,304	1,080	954	766
Total operating expenses	3,667	2,632	3,065	2,881

Operating loss	(3,667)	(2,632)	(3,065)	(2,881)
Other income (expense)				
Financing income, net	174	160	69	110
Taxes on income	(50)	61	(36)	(26)
Net loss	\$ (3,543)	\$ (2,411)	\$ (3,032)	\$ (2,797)
Basic and diluted loss per common share	\$ (0.18)	\$ (0.12)	\$ (0.15)	\$ (0.14)

2001

	Mar. 31	June 30	Sept. 30	Dec. 31
(in thousands except per share data)				
Operating expenses:				
Research and development:				
Non-cash compensation	\$ 353	\$ 646	\$ (1,285)	\$ 269
Other research and development	1,678	2,065	2,009	1,664
Total research and development	2,031	2,711	724	1,933
General and administrative:				
Non-cash compensation	48	35	23	33
Other general and administrative	1,069	1,240	1,086	907
Total general and administrative	1,117	1,275	1,109	940
Total operating expenses	3,148	3,986	1,833	2,873
Operating loss	(3,148)	(3,986)	(1,833)	(2,873)
Other income (expense)				
Financing income, net	870	549	582	230
Taxes on income	(110)	(10)	(59)	(18)
Net loss	\$ (2,388)	\$ (3,447)	\$ (1,310)	\$ (2,661)
Basic and diluted loss per common share	\$ (0.12)	\$ (0.17)	\$ (0.07)	\$ (0.13)

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE.

None.

Part III

ITEM 10. DIRECTORS AND EXECUTIVE OFFICERS OF THE COMPANY.

The information required by this item is incorporated herein by reference to our Proxy Statement for our 2003 Annual Meeting of Stockholders.

ITEM 11. EXECUTIVE COMPENSATION.

The information required by this item is incorporated herein by reference to our Proxy Statement for our 2003 Annual Meeting of Stockholders.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS.

The information required by this item regarding the security ownership of certain of our beneficial owners and our management is incorporated herein by reference to our Proxy Statement for our 2003 Annual Meeting of Stockholders.

The following table provides information as of December 31, 2002, about the securities authorized for issuance under our equity compensation plans, consisting of our 1999 Share Option Plan, as amended, our 2000 Share Option Plan, as amended, and our 2002 CEO Incentive Plan.

Equity Compensation Plan Information			
Plan Category	(a) Number of securities to be issued upon exercise of outstanding options, warrants and rights	(b) Weighted-average exercise price of outstanding options, warrants and rights	(c) Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a))
Equity compensation plans approved by security holders.....	7,147,370	\$1.6051	1,366,130
Equity compensation plans not approved by security holders.....	2,197,657	\$1.2139	22,500
Total.....	9,345,027	\$1.5128	1,388,630

2002 CEO Incentive Plan

In December 2002, our board of directors adopted the 2002 CEO Incentive Plan, pursuant to which it granted our newly-appointed Chief Executive Officer, Michael S. Weiss, an option to purchase up to 2,002,657 shares of authorized but unissued common stock. The option has a term of no more than ten (10) years plus one day from the date of the grant, unless otherwise authorized by our board of directors. The option granted to Mr. Weiss was part of a total grant of options issued pursuant to the 1999 and 2000 Plans and the 2002 CEO Incentive Plan, to purchase a total of 4,050,000 shares of our common stock. Of these options, one-third (or 1,350,000) vest over a three-year period and two-thirds (or 2,700,000) vest upon the earlier of the achievement of certain performance-based milestones or December 23, 2012. In addition,

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in the event of a merger, acquisition or other change of control or in the event that we terminate Mr. Weiss' employment, either without cause or as a result of his death or disability, or he terminates his employment for good reason, the exercisability of any of the options described in this paragraph that are unexercisable at the time of such event or termination shall accelerate and the time period during which he shall be allowed to exercise such options shall be extended to the shorter of two years from the date of the termination of his employment or December 24, 2012. Additionally, our board of directors shall have the discretion to accelerate all or a portion of these options at any time.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS.

The information required by this item is incorporated herein by reference to our Proxy Statement for our 2003 Annual Meeting of Stockholders.

ITEM 14. CONTROLS AND PROCEDURES.

Evaluation of disclosure controls and procedures. Based on their evaluations as

of a date within 90 days of the filing date of this report, our principal executive officer and principal financial officer, with the participation of our full management team, have concluded that our disclosure controls and procedures (as defined in Rules 13a-14(c) and 15d-14(c) under the Securities Exchange Act) are effective to ensure that information required to be disclosed by us in reports that we file or submit under the Securities Exchange Act is recorded, processed, summarized and reported within the time periods specified in the rules and forms of the SEC.

Changes in internal controls. There were no significant changes in our internal controls or in other factors that could significantly affect these internal controls subsequent to the date of their most recent evaluation, including any corrective actions with regard to significant deficiencies and material weaknesses.

PART IV

ITEM 15. EXHIBITS, FINANCIAL STATEMENT SCHEDULES, AND REPORTS ON FORM 8-K.

(a)

1. Financial Statements.

Our Consolidated Financial Statements listed in the accompanying Index to Consolidated Financial Statements at page F-1 are filed as part of this Form 10-K.

2. Financial Statement Schedules.

All schedules are omitted as the information required is inapplicable or the information is presented in the consolidated financial statements or the related notes.

3. Exhibits.

See Section (c) below.

(b) Reports on Form 8-K.

On December 23, 2003, we filed an 8-K (Item 5) announcing the appointment of Michael S. Weiss as our Chairman and Chief Executive Officer, replacing Dr. Benjamin Corn, who resigned his position as Chief Executive Officer and President, effective as of that date. On the same date, we also announced that Dr. Morris Laster, our Executive Chairman, resigned to pursue other activities.

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(c) Exhibits

Listed below are the exhibits that are filed as part of this Form 10-K (according to the number assigned to them in Item 601 of Regulation S-K). Each exhibit marked by the number:

- (1) is incorporated by reference to our Registration Statement on Form S-1 (File No. 333-37402) filed on May 19, 2000;
- (2) is incorporated by reference to the First Amendment to our Registration Statement on Form S-1 (File No. 333-37402) filed on June 30, 2000;
- (3) is incorporated by reference to our Annual Report on Form 10-K (File No. 000-30929) filed on March 30, 2001;
- (4) is incorporated by reference to our Quarterly Report on Form 10-Q (File No. 30929) filed on November 13, 2001;

(5) is incorporated by reference to our Annual Report on Form 10-K (File No. 30929) filed on March 26, 2002; and

(6) is incorporated by reference to our Quarterly Report on Form 10-Q (File No. 30929) filed on November 12, 2002.

Portions of each exhibit marked with a (!) have been redacted and filed separately with the Commission pursuant to a request for confidential treatment.

Each exhibit marked (+) is a management contract or compensatory plan or arrangement filed as an exhibit to this Form 10-K pursuant to Items 14(a) and 14(c) of Form 10-K.

Exhibit Number -----	Description -----
2.1(1)	--Asset Purchase Agreement between Partec Ltd. (a predecessor company of Keryx Biopharmaceuticals, Inc.) and B.R.T. Biopharmaceuticals Ltd., dated as of November 11, 1999.
2.2(1)	--Asset Purchase Agreement between Partec Ltd. and Keryx Biopharmaceuticals, Inc. (f/k/a Lakaro Biopharmaceuticals, Inc.), dated as of November 18, 1999.
3.1(1)	--Certificate of Incorporation of Keryx Biopharmaceuticals, Inc., as amended.
3.2(5)	--Amended and Restated Bylaws of Keryx Biopharmaceuticals, Inc.
4.1(2)	--Specimen Common Stock Certificate.
4.2(1)	--Form of Stock Purchase Agreement for the purchase of shares of Common Stock.
4.4(1)	--Form of Contribution Agreement between Keryx Biopharmaceuticals, Inc. and the holders of 12% Convertible Notes of Partec Ltd.
4.5	--Warrant No. 5 for the Purchase of Shares of Common Stock between Yissum Research and Development Company of the Hebrew University of Jerusalem and Keryx Biopharmaceuticals, Inc., dated December 12, 2001.
4.6	--Warrant No. 6 for the Purchase of Shares of Common Stock between Yissum Research and Development Company of the Hebrew University of Jerusalem and Keryx Biopharmaceuticals, Inc., dated December 12, 2001.
4.7	--Warrant No. 7 for the Purchase of Shares of Common Stock between Children's Medical Center Corporation and Keryx Biopharmaceuticals, Inc., dated March 3, 2002.
4.8	--Warrant No. 8 for the Purchase of Shares of Common Stock between Children's Medical Center Corporation and Keryx Biopharmaceuticals, Inc., dated March 3, 2002.
4.9	--Warrant No. 9 for the Purchase of Shares of Common Stock between Shmuel Ben Sasson and Keryx Biopharmaceuticals, Inc., dated March 3, 2003.
4.10	--Warrant No. 10 for the Purchase of Shares of Common Stock between Shmuel Ben Sasson and Keryx Biopharmaceuticals, Inc., dated March 3, 2003.
4.11	--Form of Warrant for the Purchase of Shares of Common Stock between Yissum Research and Development Company of the Hebrew University of Jerusalem and Keryx Biopharmaceuticals, Inc., dated January 10, 2002.

- 4.12(1) --Form of Warrant for the Purchase of Shares of Common Stock between certain holders of Series A Preferred Stock and Keryx Biopharmaceuticals, Inc., dated as of December 14, 1999.
- 10.1+ --Severance Agreement between Morris Laster, M.D. and Keryx Biopharmaceuticals, Inc., dated February 27, 2003.
- 10.2+ --Severance Agreement between Benjamin Corn, M.D. and Keryx Biopharmaceuticals Inc., dated February 23, 2003.
- 10.3(6)+ --Severance Agreement between Robert Gallahue, Jr. and Keryx Biopharmaceuticals, Inc., dated August 15, 2002.
- 10.4(6)+ --Agreement between Ira Weinstein and Keryx Biopharmaceuticals, Inc., dated August 15, 2002, concerning a reduction in compensation.
- 10.5(1)! --Exclusive License Agreement between the Children's Medical Center Corporation and Keryx Biopharmaceuticals, Inc., dated as of November 18, 1999.
- 10.6(1)! --License Agreement between Alfa Wassermann S.p.A. and Partec Ltd., dated as of November 12, 1998.
- 10.7(5)! --License Agreement between Yissum Research & Development Company of the Hebrew University of Jerusalem and Keryx Biopharmaceuticals, Inc., dated as of January 10, 2002.
- 10.8(6)! --License Agreement between Opocrin S.p.A. and Keryx Biopharmaceuticals, Inc., dated September 25, 2002.
- 10.9(1) --Management Services Agreement between Keryx Biopharmaceuticals, Inc. and B.R.T. Biopharmaceuticals Ltd. (now Keryx Biopharmaceuticals Ltd.), dated as of November 30, 1999.
- 10.10(1) --Form of KRX-101 Scientific Advisory Board Agreement.
- 10.11(1) --Form of KinAce Scientific Advisory Board Agreement between Keryx Biopharmaceuticals, Inc. and Dr. James Broach.
- 10.12(2) --Form of KinAce Scientific Advisory Board Agreement between Moshe Oren, Ph.D. and Keryx Biopharmaceuticals, Inc.
- 10.13(3)+ --Employment Agreement between Keryx Biopharmaceuticals, Inc. and Ira Weinstein, dated as of November 19, 1999.
- 10.14(3)+ --Employment Agreement between Keryx (Israel) Ltd. and Ira Weinstein, dated as of November 19, 1999.
- 10.15(3)+ --Employment Agreement between Keryx Biopharmaceuticals, Inc. and Bob Trachtenberg, dated as of November 19, 1999.
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- 10.16(3)+ --Employment Agreement between Keryx (Israel) Ltd. and Bob Trachtenberg, dated as of November 19, 1999.
- 10.17(3) --Lease Agreement between RMPA Nechasim, Ltd. and Keryx (Israel) Ltd., dated as of December 21, 2000.
- 10.18 --Amendment, dated as of March 25, 2003, to the Exclusive License Agreement between the Children's Medical Center Corporation and Keryx Biopharmaceuticals, Inc., dated as of November 18, 1999.
- 10.19(4)+ --Employment Agreement between Barry Cohen and Keryx Biopharmaceuticals, Inc., dated as of September 24, 2001.

- 10.20(5)+ --Employment Agreement between Thomas J. Humphries, M.D. and Keryx Biopharmaceuticals, Inc., dated as of November 9, 2001.
- 10.21(5) --Amended Management Services Agreement between Keryx Biopharmaceuticals, Inc. and Keryx Biomedical Technologies Ltd., dated as of November 1, 2001.
- 10.22(5) --Sub-lease Agreement between Keryx Biopharmaceuticals, Inc. and Zero Stage Capital, Inc., dated June 20, 2001.
- 10.23(4)+ --Agreement between Bob Trachtenberg and Keryx Biopharmaceuticals, Inc., dated August 15, 2002, concerning a reduction in compensation.
- 10.24(4)+ --Agreement between Thomas J. Humphries, M.D. and Keryx Biopharmaceuticals, Inc., dated August 15, 2002, concerning a reduction in compensation.
- 10.25(4)+ --Agreement between Barry Cohen and Keryx Biopharmaceuticals, Inc., dated August 15, 2002, concerning a reduction in compensation.
- 21.1 --List of subsidiaries of Keryx Biopharmaceuticals, Inc.
- 23.1 --Consent of KPMG.
- 99.1 -- Certifications Pursuant to 18 U.S.C. Section 1350

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, we have duly caused this report to be signed on our behalf by the undersigned, thereunto duly authorized.

KERYX BIOPHARMACEUTICALS, INC.

By: /s/ Michael S. Weiss

Michael S. Weiss
Chairman & Chief Executive Officer

Date: March 31, 2003

Pursuant to the requirements of the Securities Exchange Act of 1934, the following persons have signed this report below on behalf of Keryx and in the capacities and on the dates indicated.

Signature	Title	
/s/ Michael S. Weiss ----- Chairman and Chief Executive Officer Michael S. Weiss (Principal Executive Officer)		March 31, 2003
/s/ Ira Weinstein. ----- Ira Weinstein Interim Chief Financial Officer and Treasurer (Principal Financial and Accounting Officer)		March 31, 2003
/s/ Francis J. T. Fildes	Director	March 31, 2003

Francis J. T. Fildes

Director

March 31, 2003

Malcolm Hoenlein

/s/ Peter M. Kash

Vice Chairman

March 31, 2003

Peter M. Kash

Director

March 31, 2003

Mark H. Rachesky, M.D.

/s/ Lindsay A. Rosenwald, M.D.

Director

March 31, 2003

Lindsay A. Rosenwald, M.D.

Director

March 31, 2003

Wayne Rothbaum

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CERTIFICATIONS

I, Michael S. Weiss, certify that:

1. I have reviewed this annual report on Form 10-K of Keryx Biopharmaceuticals, Inc.;
2. Based on my knowledge, this annual report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this annual report;
3. Based on my knowledge, the financial statements, and other financial information included in this annual report, fairly present in all material respects the financial condition, results of operations and cash flows of Keryx Biopharmaceuticals, Inc. as of, and for, the periods presented in this annual report;
4. The registrant's other certifying officers and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-14 and 15d-14) for Keryx Biopharmaceuticals, Inc. and have:
 - a) designed such disclosure controls and procedures to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this annual report is being prepared;
 - b) evaluated the effectiveness of the disclosure controls and procedures of Keryx Biopharmaceuticals, Inc. as of a date within 90 days prior to the filing date of this annual report (the "Evaluation Date"); and
 - c) presented in this annual report our conclusions about the effectiveness of the disclosure controls and procedures based on our evaluation as of the Evaluation Date;

5. The registrant's other certifying officers and I have disclosed, based on our most recent evaluation, to the auditors of Keryx Biopharmaceuticals, Inc. and the audit committee of the board of directors (or persons performing the equivalent functions) of Keryx Biopharmaceuticals, Inc.:
 - a) all significant deficiencies in the design or operation of internal controls which could adversely affect the ability of Keryx Biopharmaceuticals, Inc. to record, process, summarize and report financial data and have identified for such auditors any material weaknesses in internal controls; and
 - b) any fraud, whether or not material, that involves management or other employees who have a significant role in the internal controls of Keryx Biopharmaceuticals, Inc.; and
6. The registrant's other certifying officers and I have indicated in this annual report whether there were significant changes in internal controls or in other factors that could significantly affect internal controls subsequent to the date of our most recent evaluation, including any corrective actions with regard to significant deficiencies and material weaknesses.

/s/ Michael S. Weiss

Michael S. Weiss
Chief Executive Officer
(Principal Executive Officer)

Dated: March 31, 2003

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I, Ira Weinstein, certify that:

1. I have reviewed this annual report on Form 10-K of Keryx Biopharmaceuticals, Inc.;
2. Based on my knowledge, this annual report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this annual report;
3. Based on my knowledge, the financial statements, and other financial information included in this annual report, fairly present in all material respects the financial condition, results of operations and cash flows of Keryx Biopharmaceuticals, Inc. as of, and for, the periods presented in this annual report;
4. The registrant's other certifying officers and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-14 and 15d-14) for Keryx Biopharmaceuticals, Inc. and have:
 - a) designed such disclosure controls and procedures to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this annual report is being prepared;
 - b) evaluated the effectiveness of the disclosure controls and procedures of Keryx Biopharmaceuticals, Inc. as of a date within 90 days prior to the filing date of this annual report (the "Evaluation Date"); and
 - c) presented in this annual report our conclusions about the effectiveness of the disclosure controls and procedures based our evaluation as of the Evaluation Date;

5. The registrant's other certifying officers and I have disclosed, based on our most recent evaluation, to the auditors of Keryx Biopharmaceuticals, Inc. and the audit committee of the board of directors (or persons performing the equivalent functions) of Keryx Biopharmaceuticals, Inc.:
- a) all significant deficiencies in the design or operation of internal controls which could adversely affect the ability of Keryx Biopharmaceuticals, Inc. to record, process, summarize and report financial data and have identified for the such auditors any material weaknesses in internal controls; and
 - b) any fraud, whether or not material, that involves management or other employees who have a significant role in the internal controls of Keryx Biopharmaceuticals, Inc.; and
6. The registrant's other certifying officers and I have indicated in this annual report whether there were significant changes in internal controls or in other factors that could significantly affect internal controls subsequent to the date of our most recent evaluation, including any corrective actions with regard to significant deficiencies and material weaknesses.

/s/ Ira Weinstein

 Ira Weinstein
 Interim Chief Financial Officer
 (Principal Financial and Accounting Officer)

Dated: March 31, 2003

Keryx Biopharmaceuticals, Inc. (A Development Stage Company)
 Consolidated Financial Statements as of December 31, 2002

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Keryx Biopharmaceuticals, Inc. (A Development Stage Company)
 Consolidated Financial Statements as of December 31, 2002

 Independent Auditor's Report

To the Board of Directors and Shareholders of
Keryx Biopharmaceuticals, Inc.:

We have audited the accompanying consolidated balance sheets of Keryx Biopharmaceuticals, Inc. (the "Company"), a development stage company, and its subsidiaries, as of December 31, 2002 and 2001 and the related consolidated statements of operations, statements of changes in stockholders' equity and consolidated statements of cash flows for each of the years in the three-year period ended December 31, 2002, and for the development stage period. These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these consolidated financial statements based on our audits.

We conducted our audits in accordance with auditing standards generally accepted in the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the consolidated financial position of the Company, a development stage company, and its subsidiaries, at December 31, 2002 and 2001 and the results of their operations, changes in stockholders' equity and cash flows for each of the years in the three-year period ended December 31, 2002, and for the development stage period, in conformity with accounting principles generally accepted in the United States.

Somekh Chaikin

Certified Public Accountants (Isr.)
A member firm of KPMG International

Jerusalem, Israel
March 26, 2003

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Keryx Biopharmaceuticals, Inc. (A Development Stage Company)

Consolidated Balance Sheets as of December 31

(in thousands, except share amounts)

	2002	2001
	-----	-----
Assets		
Current assets		
Cash and cash equivalents (Note 2)	\$ 13,350	\$ 23,345
Investment securities, held-to-maturity (Note 3)	10,575	14,308
Deposits in respect of employee severance obligations (current portion) (Note 6)	299	--
Accrued interest receivable	206	203
Deferred tax asset (Note 9)	170	--
Other receivables and prepaid expenses	267	465
	-----	-----
Total current assets	24,867	38,321
	-----	-----

Deposits in respect of employee severance obligations (Note 6)	117	291
Property, plant and equipment, net (Note 4)	3,031	3,338
Deferred tax asset (Note 9)	--	115
Other assets (primarily intangible assets), net (Note 5)	1,088	1,002
	-----	-----
Total assets	\$ 29,103	\$ 43,067
	=====	=====
Liabilities and Stockholders' Equity		
Current liabilities		
Accounts payable and accrued expenses	\$ 920	\$ 2,099
Income taxes payable (Note 9)	177	277
Accrued compensation and related liabilities	1,420	710
	-----	-----
Total current liabilities	2,517	3,086
	-----	-----
Liability in respect of employee severance obligations (Note 6)	188	766
Deferred tax liability, net (Note 9)	68	--
	-----	-----
Total liabilities	2,773	3,852
	-----	-----
Commitments and contingencies		
Stockholders' equity (Note 7)		
Common stock, \$0.001 par value per share (40,000,000 and 40,000,000 shares authorized, 19,913,185 and 19,846,694 shares issued, 19,866,885 and 19,846,694 shares outstanding at December 31, 2002 and 2001, respectively)	20	19
Additional paid-in capital	72,067	74,025
Treasury stock, at cost, 46,300 shares at December 31, 2002	(77)	--
Unearned compensation	(178)	(1,110)
Deficit accumulated during the development stage	(45,502)	(33,719)
	-----	-----
Total stockholders' equity	26,330	39,215
	-----	-----
Total liabilities and stockholders' equity	\$ 29,103	\$ 43,067
	=====	=====

The accompanying notes are an integral part of the consolidated financial statements.

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Keryx Biopharmaceuticals, Inc. (A Development Stage Company)

Consolidated Statements of Operations for the Year Ended December 31

(in thousands, except share and per share amounts)

	2002	2001	2000	Amounts accumulated during the development stage
	-----	-----	-----	-----
Management fees from related party	\$ --	\$ --	\$ --	\$ 300
	-----	-----	-----	-----
Operating expenses				
Research and development:				
Non-cash compensation	\$ (1,382)	\$ (17)	\$ 3,186	\$ 7,213
Other research and development	9,523	7,416	3,500	23,911
	-----	-----	-----	-----
Total research and development expenses	8,141	7,399	6,686	31,124
	-----	-----	-----	-----
General and administrative:				
Non-cash compensation	(4)	139	2,668	3,391
Other general and administrative	4,108	4,302	3,232	14,405

Total general and administrative expenses	4,104	4,441	5,900	17,796
Total operating expenses	12,245	11,840	12,586	48,920
Operating loss	(12,245)	(11,840)	(12,586)	(48,620)
Interest income	582	2,316	1,368	4,291
Interest expense and other bank charges	(69)	(85)	(51)	(656)
Net loss before income taxes	(11,732)	(9,609)	(11,269)	(44,985)
Income taxes (Note 9)	51	197	220	517
Net loss	\$ (11,783)	\$ (9,806)	\$ (11,489)	\$ (45,502)
Basic and diluted loss per common share	\$ (0.59)	\$ (0.50)	\$ (0.89)	\$ (3.55)
Weighted average shares used in computing basic and diluted net loss per common share	19,897,939	19,699,542	12,929,643	12,808,738

The accompanying notes are an integral part of the consolidated financial statements.

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Keryx Biopharmaceuticals, Inc. (A Development Stage Company)

Statement of Changes in Stockholders' Equity

(in thousands, except share amounts)

	Series A convertible preferred stock		Common stock		Additional paid-in capital
	Shares	Amount	Shares	Amount	
Balance at December 31, 1999	79,465	\$ --*	1,208,306	\$ 1	\$ 19,713
Changes during the year:					
Issuance of Series A convertible preferred stock to investors at \$100 per share for cash (net of issuance expenses of \$271)	39,180	--*	--	--	3,647
Receipt on account of shares issued in prior years	--	--	6,900,000	7	--
Conversion of Series A convertible preferred stock to common stock	(118,645)	--*	6,114,962	6	(6)
Issuance of common stock in initial public offering, including exercise of overallotment (net of issuance expenses of \$5,702)	--	--	5,200,000	5	46,293
Exercise of warrants	--	--	109,504	--*	1
Compensation in respect of options granted to employees, directors and consultants	--	--	--	--	3,734
Compensation in respect of warrants for common stock issued to technology licensor	--	--	--	--	3,070
Warrants of common stock issued to related party as finder's fee in private placement	--	--	--	--	114
Net loss	--	--	--	--	--
Balance at December 31, 2000	--	\$ --*	19,532,772	\$ 19	\$ 76,566

	Treasury stock		Unearned compensation	Deficit accumulated during the development stage	Total
	Shares	Amount			
Balance at December 31, 1999	--	\$ --	\$ (2,854)	\$ (12,424)	\$ 4,436
Changes during the year:					
Issuance of Series A convertible preferred stock to investors at \$100 per share for cash (net of issuance expenses of \$271)	--	--	--	--	3,647
Receipt on account of shares issued in prior years	--	--	--	--	7
Conversion of Series A convertible preferred stock to common stock	--	--	--	--	--
Issuance of common stock in initial public offering, including exercise of overallotment (net of issuance expenses of \$5,702)	--	--	--	--	46,298
Exercise of warrants	--	--	--	--	1
Compensation in respect of options granted to employees, directors and consultants	--	--	431	--	4,165
Compensation in respect of warrants for common stock issued to technology licensor	--	--	(1,382)	--	1,688
Warrants of common stock issued to related party as finder's fee in private placement	--	--	--	--	114
Net loss	--	--	--	(11,489)	(11,489)
Balance at December 31, 2000	--	\$ --	\$ (3,805)	\$ (23,913)	\$ 48,867

* Amount less than \$1,000

The accompanying notes are an integral part of the consolidated financial statements.

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Keryx Biopharmaceuticals, Inc. (A Development Stage Company)

Statement of Changes in Stockholders' Equity (continued)

(in thousands, except share amounts)

	Series A convertible preferred stock		Common stock		Additional paid-in capital
	Shares	Amount	Shares	Amount	
Balance at December 31, 2000	--	\$ --*	19,532,772	\$ 19	\$ 76,566
Changes during the year:					
Exercise of warrants	--	--	137,922	--*	10
Exercise of options	--	--	176,000	--*	23
Compensation in respect of options granted to employees, directors and consultants	--	--	--	--	(1,514)
Compensation in respect of warrants for common stock issued to technology licensor	--	--	--	--	(1,060)
Net loss	--	--	--	--	--
Balance at December 31, 2001	--	\$ --*	19,846,694	\$ 19	\$ 74,025

	Treasury stock		Unearned compensation	Deficit accumulated during the development stage	Total
	Shares	Amount			
Balance at December 31, 2000	--	\$ --	\$ (3,805)	\$ (23,913)	\$ 48,867
Changes during the year:					
Exercise of warrants	--	--	--	--	10
Exercise of options	--	--	--	--	23
Compensation in respect of options granted to employees, directors and consultants	--	--	1,738	--	18
Compensation in respect of warrants for common stock issued to technology licensor	--	--	957	--	103
Net loss	--	--	--	(9,806)	(9,806)
Balance at December 31, 2001	--	\$ --	\$ (1,110)	\$ (33,719)	\$ 39,215

* Amount less than \$1,000

The accompanying notes are an integral part of the consolidated financial statements.

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Keryx Biopharmaceuticals, Inc. (A Development Stage Company)

Statement of Changes in Stockholders' Equity (continued)

(in thousands, except share amounts)

Series A convertible

	preferred stock		Common stock		Additional paid-in capital
	Shares	Amount	Shares	Amount	
Balance at December 31, 2001	--	\$ --*	19,846,694	\$ 19	\$ 74,025
Changes during the year:					
Issuance of common stock to technology licensors for technology license	--	--	48,491	1	358
Purchase of common stock	--	--	--	--	--
Exercise of warrants	--	--	--	--	--
Exercise of options	--	--	18,000	--*	2
Compensation in respect of options granted to employees, directors and consultants	--	--	--	--	(173)
Compensation in respect of warrants for common stock issued to technology licensor	--	--	--	--	(2,145)
Net loss	--	--	--	--	--
Balance at December 31, 2002	--	\$ --*	19,913,185	\$ 20	\$ 72,067

	Treasury stock		Unearned compensation	Deficit accumulated during the development stage	Total
	Shares	Amount			
Balance at December 31, 2001	--	\$ --	\$ (1,110)	\$ (33,719)	\$ 39,215
Changes during the year:					
Issuance of common stock to technology licensors for technology license	--	--	--	--	359
Purchase of common stock	46,300	(77)	--	--	(77)
Exercise of warrants	--	--	--	--	--
Exercise of options	--	--	--	--	2
Compensation in respect of options granted to employees, directors and consultants	--	--	145	--	(28)
Compensation in respect of warrants for common stock issued to technology licensor	--	--	787	--	(1,358)
Net loss	--	--	--	(11,783)	(11,783)
Balance at December 31, 2002	46,300	\$ (77)	\$ (178)	\$ (45,502)	\$ 26,330

* Amount less than \$1,000

The accompanying notes are an integral part of the consolidated financial statements.

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Keryx Biopharmaceuticals, Inc. (A Development Stage Company)

Statement of Changes in Stockholders' Equity (continued)

(in thousands, except share amounts)

	Series A convertible preferred stock		Common stock		Additional paid-in capital
	Shares	Amount	Shares	Amount	
Amounts accumulated during the development stage:					
Contributed capital	--	\$ --	--	\$ --	\$ 3,181
Conversion of convertible notes of Partec into stock in Keryx	--	--	--	--	2,973
Issuance of Series A convertible preferred stock to investors at \$100 per share for cash (net of issuance expenses of \$552)	89,180	--*	--	--	8,338
Issuance of Series A convertible preferred stock at \$0.001 par value to noteholders in exchange for note of predecessor	29,465	--*	--	--	--
Issuance of common stock to technology licensors for technology license	--	--	1,256,797	2	358
Receipt on account of shares issued in prior years	--	--	6,900,000	7	--
Conversion of Series A convertible preferred stock to common stock	(118,645)	--*	6,114,962	6	(6)
Issuance of common stock in initial public offering, including exercise of overallotment (net of issuance expenses of \$5,702)	--	--	5,200,000	5	46,293
Purchase of common stock	--	--	--	--	--
Exercise of warrants	--	--	247,426	--*	11
Exercise of options	--	--	194,000	--*	25

Compensation in respect of options granted to employees, directors and consultants	--	--	--	--	8,542
Compensation in respect of warrants for common stock issued to technology licensor	--	--	--	--	1,650
Warrants of common stock issued to related party as finder's fee in private placement	--	--	--	--	114
Warrants for common stock issued to noteholders in exchange for note of predecessor	--	--	--	--	588
Net loss	--	--	--	--	--
	-----	-----	-----	-----	-----
	--	\$ --*	19,913,185	\$ 20	\$ 72,067
	=====	=====	=====	=====	=====

* Amount less than \$1,000

The accompanying notes are an integral part of the consolidated financial statements.

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Keryx Biopharmaceuticals, Inc. (A Development Stage Company)

Statement of Changes in Stockholders' Equity (continued)

(in thousands, except share amounts)

	Treasury stock		Unearned compensation	Deficit accumulated during the development stage	Total
	Shares	Amount			
Amounts accumulated during the development stage:					
Contributed capital	--	\$ --	\$ --	\$ --	\$ 3,181
Conversion of convertible notes of Partec into stock in Keryx	--	--	--	--	2,973
Issuance of Series A convertible preferred stock to investors at \$100 per share for cash (net of issuance expenses of \$552)	--	--	--	--	8,338
Issuance of Series A convertible preferred stock at \$0.001 par value to noteholders in exchange for note of predecessor	--	--	--	--	--
Issuance of common stock to technology licensors for technology license	--	--	--	--	360
Receipt on account of shares issued in prior years	--	--	--	--	7
Conversion of Series A convertible preferred stock to common stock	--	--	--	--	--
Issuance of common stock in initial public offering, including exercise of overallotment (net of issuance expenses of \$5,702)	--	--	--	--	46,298
Purchase of common stock	46,300	(77)	--	--	(77)
Exercise of warrants	--	--	--	--	11
Exercise of options	--	--	--	--	25
Compensation in respect of options granted to employees, directors and consultants	--	--	1,142	--	9,684
Compensation in respect of Warrants for common stock issued to technology licensor	--	--	(1,320)	--	330
Warrants of common stock issued to related party as finder's fee in private placement	--	--	--	--	114
Warrants for common stock issued to noteholders in exchange for note of predecessor	--	--	--	--	588
Net loss	--	--	--	(45,502)	(45,502)
	-----	-----	-----	-----	-----
	46,300	\$ (77)	\$ (178)	\$ (45,502)	\$ 26,330
	=====	=====	=====	=====	=====

* Amount less than \$1,000

The accompanying notes are an integral part of the consolidated financial statements.

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Keryx Biopharmaceuticals, Inc. (A Development Stage Company)

Consolidated Statements of Cash Flows for the Year Ended December 31

(in thousands)

	2002	2001	2000	Amounts accumulated during the development stage
	-----	-----	-----	-----
CASH FLOWS FROM OPERATING ACTIVITIES				
Net loss	\$(11,783)	\$ (9,806)	\$(11,489)	\$ (45,502)
Adjustments to reconcile cash flows used in operating activities:				
Revenues and expenses not involving cash flows:				
Employee stock compensation expense	104	335	3,556	8,960
Consultants' and third party stock compensation expense (negative expense)	(1,490)	(213)	2,297	1,644
Issuance of common stock to technology licensor	359	--	--	359
Interest on convertible notes settled through issuance of preferred shares	--	--	--	253
Provision for employee severance obligations	(578)	462	187	188
Depreciation and amortization	953	250	47	1,326
Loss on disposal of property, plant and equipment	56	28	--	84
Exchange rate differences	26	62	3	84
Changes in assets and liabilities:				
Decrease (increase) in other receivables and prepaid expenses	198	(260)	47	(262)
Decrease (increase) in accrued interest receivable	(3)	392	(595)	(206)
Changes in deferred tax provisions	13	(115)	--	(102)
Decrease in amounts due to related party (Decrease) increase in accounts payable and accrued expenses	(750)	730	763	870
(Decrease) increase in income taxes payable	(100)	252	15	177
Increase in accrued compensation and related liabilities	710	536	62	1,420
Net cash used in operating activities	(12,285)	(7,347)	(5,248)	(30,707)
CASH FLOWS FROM INVESTING ACTIVITIES				
Purchases of property, plant and equipment	(1,155)	(2,808)	(199)	(4,400)
Proceeds from disposals of property, plant and equipment	37	--	--	37
Investment in other assets	(99)	(313)	(366)	(1,123)
Proceeds from (additions to) deposits in respect of employee severance obligations	174	(155)	(72)	(117)
Proceeds from sale and maturity of (investment in) short-term securities	3,733	1,185	(15,494)	(10,575)
Proceeds from sale and maturity of (investment in) long-term securities	--	10,104	(10,104)	--
Deposits in respect of employee severance obligations (current portion)	(299)	--	--	(299)
Net cash provided by (used in) investing activities	\$ 2,391	\$ 8,013	\$(26,235)	\$ (16,477)

* Amount less than \$1,000

The accompanying notes are an integral part of the consolidated financial statements.

Keryx Biopharmaceuticals, Inc. (A Development Stage Company)

Consolidated Statements of Cash Flows for the Year Ended December 31

(continued)

(in thousands)

	2002	2001	2000	Amounts accumulated during the development stage
--	------	------	------	--

	-----	-----	-----	-----
CASH FLOWS FROM FINANCING ACTIVITIES				
Proceeds from short-term loans	\$ --	\$ --	\$ --	\$ 500
Proceeds from long-term loans	--	--	--	3,251
Issuance of convertible note, net	--	--	--	2,150
Issuance of preferred shares, net and contributed capital	--	--	3,761	8,453
Receipts on account of shares previously issued	--	--	7	7
Proceeds from initial public offering, net	--	--	46,298	46,298
Proceeds from exercise of options and warrants	2	33	1	36
Purchase of treasury stock	(77)	--	--	(77)
Net cash provided by (used in) financing activities	(75)	33	50,067	60,618
Effect of exchange rate on cash	(26)	(62)	(3)	(84)
NET INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS	(9,995)	637	18,581	13,350
Cash and cash equivalents at beginning of year	23,345	22,708	4,127	--
CASH AND CASH EQUIVALENTS AT END OF YEAR	\$ 13,350	\$ 23,345	\$ 22,708	\$ 13,350
NON - CASH TRANSACTIONS				
Conversion of short-term loans into contributed capital	\$ --	\$ --	\$ --	\$ 500
Conversion of long-term loans into contributed capital	--	--	--	2,681
Conversion of long-term loans into convertible notes of Partec	--	--	--	570
Conversion of convertible notes of Partec and accrued interest into stock in Keryx	--	--	--	2,973
Issuance of warrants to related party as finder's fee in private placement	--	--	114	114
Declaration of stock dividend	--	--	3	3
Conversion of Series A preferred stock to common stock	--	--	--*	--
Purchase of property, plant and equipment and other assets on credit	47	475	--	47
SUPPLEMENTARY DISCLOSURES OF CASH FLOW INFORMATION				
Cash paid for interest	\$ --*	\$ 1	\$ 3	\$ 139
Cash paid for income taxes	132	120	118	371

* Amount less than \$1,000

The accompanying notes are an integral part of the consolidated financial statements.

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Keryx Biopharmaceuticals, Inc. (A Development Stage Company)

Notes to the Consolidated Financial Statements

NOTE 1 - ORGANIZATION AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

DESCRIPTION OF BUSINESS

Keryx Biopharmaceuticals, Inc. (the "Company") is a biopharmaceutical company engaged in the research and development of novel pharmaceutical products for the treatment of serious, life-threatening diseases, including diabetes and cancer. Keryx was incorporated in Delaware in October 1998 (under the name Paramount Pharmaceuticals, Inc., which was later changed to Lakaro Biopharmaceuticals, Inc. in November 1999, and finally to Keryx Biopharmaceuticals, Inc. in January 2000). The Company commenced activities in November 1999, and since then has operated in one segment of operations, namely the development and commercialization of clinical compounds and core technologies for the life sciences. The Company has not had revenues from its planned principal operations and is dependent upon significant financing to fund the working capital necessary to execute its business development plan. There can be no assurance that the Company will be able to obtain additional financing.

Until November 1999, most of the Company's activities were carried out by Partec

Limited, an Israeli corporation formed in December 1996, and its subsidiaries SignalSite Inc. (85% owned) and its subsidiary, SignalSite Israel Ltd. (wholly owned), and Vectagen Inc. (87.25% owned) and its subsidiary, Vectagen Israel Ltd. (wholly owned) (hereinafter collectively referred to as "Partec"). In November 1999, the Company acquired substantially all of the assets and liabilities of Partec and, as of that date, the activities formerly carried out by Partec are now performed by the Company. At the date of the acquisition, Keryx and Partec were entities under common control (the controlling interest owned approximately 79.7% of Keryx and approximately 76% of Partec) and accordingly, the assets and liabilities were recorded at their historical cost basis by means of an "as if" pooling and Partec is being presented as a predecessor company. Consequently, these financial statements include the activities performed in previous periods by Partec by aggregating the relevant historical financial information with the financial statements of the Company as if they had formed a discrete operation under common management for the entire development stage.

The Company owns a 100% interest in Keryx (Israel) Ltd., incorporated in Israel, Keryx Biomedical Technologies Ltd., incorporated in Israel, and Keryx Securities Corp., a U.S. corporation organized in Massachusetts. Through December 31, 2002 substantially all of the biopharmaceutical research and development activities were conducted in Israel, and therefore, the Company has one geographical segment.

The Company implemented a strategic reorganization, initiated in August 2002 and continuing through year's end. The program was designed to substantially reduce its early stage research expenditures so it could focus primarily on the development of its lead product candidate KRX-101 for the treatment of diabetic nephropathy and on the acquisition of additional clinical stage compounds. For further details see Note 11.

PRINCIPLES OF CONSOLIDATION

The consolidated financial statements include the financial statements of the Company, its subsidiaries and the operations detailed above. Intercompany transactions and balances have been eliminated.

USE OF ESTIMATES

The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

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NOTE 1 - ORGANIZATION AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

FOREIGN CURRENCY TRANSLATION

The financial statements of the Israeli subsidiaries have been prepared using the U.S. dollar as the functional currency. Transactions in foreign currency (primarily in New Israeli Shekels - "NIS") are recorded at the representative exchange rate as of the transaction date, except for activities relating to balance sheet items, which are recorded at the appropriate exchange rate of the corresponding balance sheet item. Monetary assets and liabilities in foreign currency are stated on the basis of the representative rate of exchange at the balance sheet date. Non-monetary assets and liabilities in foreign currency are stated at historical exchange rates. All exchange gains and losses from remeasurement of monetary balance sheet items denominated in non-dollar currencies are reflected in the statement of operations as they arise.

CASH AND CASH EQUIVALENTS

The Company considers all highly-liquid investments with original maturities of three months or less to be cash equivalents.

INVESTMENT SECURITIES

Investment securities at December 31, 2002 consist of corporate debt securities. The Company classifies its debt securities as held-to-maturity. Held-to-maturity securities are those securities in which the Company has the ability and intent to hold the security until maturity.

Held-to-maturity securities are recorded at amortized cost, adjusted for the amortization or accretion of premiums or discounts.

A decline in the market value of any held-to-maturity security below cost, that is deemed to be other than temporary, results in a reduction in the carrying amount to fair value. The impairment is charged to earnings and a new cost basis for the security is established. Premiums and discounts are amortized or accreted over the life of the related held-to-maturity security as an adjustment to yield using the effective interest method. Dividend and interest income are recognized when earned.

DEPOSITS IN RESPECT OF EMPLOYEE SEVERANCE OBLIGATIONS

Deposits in respect of employee severance obligations are recorded at its current redemption value.

PROPERTY, PLANT AND EQUIPMENT

Property, plant and equipment are stated at historical cost. Depreciation is computed using the straight-line method over the estimated useful lives of the assets at the following annual rates:

	%

Office furniture and equipment	6-15
Laboratory equipment	20
Computers, software and related equipment	20-33

Leasehold improvements are amortized over the remaining term of the lease exclusive of renewal options.

INTANGIBLE ASSETS

Acquired patents and intangible assets are recorded at cost and are amortized over the remaining useful lives of these assets. The Company continually evaluates whether events and circumstances warrant the recognition of a reduction of carrying amounts.

NOTE 1 - ORGANIZATION AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

REVENUE RECOGNITION

Revenues accumulated during the development stage arose from provision of management services to a related company and were recognized ratably over the period for which the services were provided.

RESEARCH AND DEVELOPMENT COSTS

Research and development costs are expensed as incurred.

INCOME TAXES

Income taxes are accounted for under the asset and liability method. Deferred tax assets and liabilities are recognized for the future tax consequences attributable to temporary differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases and operating loss and tax credit carryforwards. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. If the likelihood of realizing the deferred tax assets or liability is less than "more likely than not," a valuation allowance is then created.

STOCK - BASED COMPENSATION

The Company applies the intrinsic value-based method of accounting prescribed by the Accounting Principles Board ("APB") Opinion No. 25, "Accounting for Stock Issued to Employees," and related interpretations, to account for stock option plans for employees and directors, as allowed by Statement of Financial Accounting Standards ("SFAS") No. 123, "Accounting for Stock-based Compensation" (SFAS No. 123). As such, compensation expense would be recorded on the measurement date only if current market price of the underlying stock exceeded the exercise price. SFAS No. 123 is applied to stock options and warrants granted to other than employees and directors. The Company has adopted the disclosure requirements of SFAS No. 123 and SFAS No. 148 for awards to its directors and employees.

Had the compensation expenses for stock options granted under the Company's stock option plans been determined based on fair value at the grant dates consistent with the method of SFAS 123, the Company's net income and earnings per share would have reduced to the pro forma amount below:

	For the year ended December 31			Amounts Accumulated During the Development Stage
	2002	2001	2000	
Net loss, as reported	\$ (11,783)	\$ (9,806)	\$ (11,489)	\$ (45,502)
Add: Stock-based compensation expense to employees and directors determined included in reported net loss, net of related tax effects	104	335	3,556	8,960
Deduct: Total stock-based compensation expense to employees and directors determined under fair value based method for all awards, net of related tax effects	(1,282)	(1,181)	(3,569)	(11,043)
Pro forma net loss	\$ (12,961)	\$ (10,652)	\$ (11,502)	\$ (47,585)
Losses per common share, Basic and diluted:				
As reported	\$ (0.59)	\$ (0.50)	\$ (0.89)	\$ (3.55)
Pro forma	\$ (0.65)	\$ (0.54)	\$ (0.89)	\$ (3.72)

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NOTE 1 - ORGANIZATION AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

IMPAIRMENT OF LONG-LIVED ASSETS AND LONG-LIVED ASSETS TO BE DISPOSED OF

The Company adopted SFAS No. 144 from January 1, 2002, "Accounting for the Impairment or Disposal of Long-Lived Assets" (SFAS No. 144). This Statement requires that long-lived assets be reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. Recoverability of assets to be held and used is measured by a comparison of the carrying amount of an asset to future cash flows expected to be generated by the asset or used in its disposal. If the carrying amount of an asset exceeds its estimated future cash flows, an impairment charge is

recognized. Assets to be disposed of are reported at the lower of the carrying amount or fair value less costs to sell.

NET LOSS PER SHARE

Basic net loss per share is computed by dividing the losses allocable to common stockholders by the weighted average number of common shares outstanding for the period. Diluted net loss per share does not reflect the effect of common shares to be issued upon exercise of stock options and warrants, as their inclusion would be anti-dilutive. The common stock equivalent of anti-dilutive securities not included in the computation of net loss per share amounts was 10,389,828 for the year ended December 31, 2002 (5,730,897 in 2001 and 5,224,150 in 2000).

CONCENTRATIONS OF CREDIT RISK

The Company does not have significant off-balance-sheet risk or credit risk concentrations. The Company maintains its cash and cash equivalents with multiple financial institutions and invests in investment-grade securities with maturities of less than twenty-four months.

RECENTLY ISSUED ACCOUNTING STANDARDS

In July 2002, the FASB issued SFAS No. 146, "Accounting for Costs Associated with Exit or Disposal Activities" ("SFAS No. 146"). SFAS No. 146 nullifies EITF 94-3. According to SFAS No. 146, commitment to a plan to exit an activity or dispose of long-lived assets will no longer be enough to record a one-time charge for most anticipated costs. Instead, companies will record exit or disposal costs when they are "incurred" and can be measured at fair value, and they will subsequently adjust the recorded liability for changes in estimated cash flows. SFAS No. 146 revises accounting for specified employee and contract terminations that are part of restructuring activities. SFAS No. 146 is effective for exit or disposal activities initiated after December 31, 2002, however earlier adoption is encouraged. The Company is required to adopt SFAS No. 146 on January 1, 2003. The Company believes that the adoption of SFAS No. 146 will not have a significant impact on the Company's consolidated financial statements.

In December 2002, the FASB issued SFAS No. 148, "Accounting for Stock Based Compensation - Transition and Disclosure - an amendment of FASB Statement No. 123" ("SFAS No. 148"). SFAS No. 148 permits two additional transition methods for entities that adopt the fair value based method of accounting for stock-based employee compensation. The Statement also requires new disclosures about the ramp-up effect of stock-based employee compensation on reported results. The Statement also requires that those effects be disclosed more prominently by specifying the form, content, and location of those disclosures. The transition guidance and annual disclosure provisions of SFAS No. 148 are effective for fiscal years ending after December 15, 2002, with earlier application permitted in certain circumstances. The interim disclosure provisions are effective for financial reports containing financial statements for interim periods beginning after December 15, 2002. The Company has adopted the disclosure requirements applicable to fiscal years ending after December 15, 2002 and is considering its position with regard to the adoption of the remaining provisions of SFAS No. 148.

NOTE 1 - ORGANIZATION AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

In November 2002, the Financial Accounting Standards Board issued Interpretation No. 45, Guarantor's Accounting and Disclosure Requirements for Guarantees, Including Indirect Guarantees of Indebtedness of Others (hereinafter the Interpretation), which addresses, among other things, the disclosure to be made by a guarantor in its interim and annual financial statements about its obligations under guarantees. These disclosure requirements are included in Note 10 to the consolidated financial statements. The Interpretation also requires

the recognition of a liability by a guarantor at the inception of certain guarantees. The Interpretation requires the guarantor to recognize a liability for the non-contingent component of the guarantee, this is the obligation to stand ready to perform in the event that specified triggering events or conditions occur. The initial measurement of this liability is the fair value of the guarantee at inception. The recognition of the liability is required even if it is not probable that payments will be required under the guarantee or if the guarantee was issued with a premium payment or as part of a transaction with multiple elements.

As noted above the Company has adopted the disclosure requirements of the Interpretation (see Note 10) and will apply the recognition and measurement provisions for all guarantees entered into or modified after December 31, 2002. The Company is evaluating the anticipated effect of the recognition provisions of FIN 45 on its consolidated financial statements.

NOTE 2 - CASH AND CASH EQUIVALENTS (IN THOUSANDS)

	December 31, 2002	December 31, 2001
	-----	-----
In or linked to US dollars:		
Money market funds	\$ 12,104	\$ 20,338
Cash*	998	2,402
	-----	-----
	13,102	22,740
In Israeli currency	248	605
	-----	-----
	\$ 13,350	\$ 23,345
	=====	=====

* Of this amount, approximately \$212 at December 31, 2002 and \$243 at December 31, 2001 is dedicated in connection with bank guarantees, as described in Note 10.

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NOTE 3 - INVESTMENT SECURITIES (IN THOUSANDS)

The following tables summarize the Company's investment securities at December 31, 2002 and December 31, 2001 (regarding assumptions used for estimated fair value see Note 8):

	December 31, 2002			
	Amortized Cost	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
	-----	-----	-----	-----
Short-term investments:				
US corporate debt securities (mature between January and June 2003)	\$ 10,575	\$ 5	\$ (3)	\$ 10,577
	=====	=====	=====	=====

	December 31, 2001			
	Amortized Cost	Gross Unrealized Holding Gains	Gross Unrealized Holding Losses	Estimated Fair Value
	-----	-----	-----	-----
Short-term investments:				
Obligations of domestic				

governmental agencies (mature between January and June 2002)	\$	3,720	\$	3	\$	--	\$	3,723
US corporate debt securities (mature between January and September 2002)		10,588		51		(7)		10,632
	\$	14,308	\$	54	\$	(7)	\$	14,355

NOTE 4 - PROPERTY, PLANT AND EQUIPMENT (IN THOUSANDS)

	December 31, 2002	December 31, 2001
	-----	-----
Cost		
Office furniture and equipment	\$ 332	\$ 391
Laboratory equipment	1,093	624
Computers, software and related equipment	355	305
Leasehold improvements	2,297	2,212
	-----	-----
	4,077	3,532
Accumulated depreciation and amortization	(1,046)	(194)
	-----	-----
Net book value	\$ 3,031	\$ 3,338
	=====	=====

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NOTE 5 - OTHER ASSETS (IN THOUSANDS)

	December 31, 2002	December 31, 2001
	-----	-----
Patents and other intangible assets	\$ 1,157	\$ 979
Long-term deposits	12	45
	-----	-----
	1,169	1,024
Accumulated patent amortization	(81)	(22)
	-----	-----
	\$ 1,088	\$ 1,002
	=====	=====

NOTE 6 - LIABILITY IN RESPECT OF EMPLOYEE SEVERANCE OBLIGATIONS (IN THOUSANDS)

Under Israeli law, employers are required to make severance payments to dismissed employees and employees leaving employment in certain other circumstances, on the basis of the latest monthly salary for each year of service. This liability is provided for by payments of premiums to insurance companies under approved plans and by a provision in these financial statements.

For the year ended December 31, 2002, total current and long-term severance obligations recorded amounted to approximately \$1,144 (2001 - \$766) an increase of approximately \$378. For the year ended December 31, 2002, the current portion of \$956 is included in current liabilities.

At December 31, 2002, current and long-term deposits in respect of employee severance obligations amounted to approximately \$416 (2001 - \$291) an increase of approximately \$125.

NOTE 7 - STOCKHOLDERS' EQUITY (IN THOUSANDS, EXCEPT SHARE AND PER SHARE AMOUNTS)

PREFERRED STOCK

The Board of Directors has the authority to issue, at any time, without further stockholder approval, up to 4,830,000 shares of "blank check" preferred stock, \$0.001 par value per share, and to determine the price, rights, privileges, and preferences of those shares.

COMMON STOCK

The Company completed its initial public offering of 4.6 million shares of its common stock at \$10 per share pursuant to a Registration Statement on Form S-1 (Registration no. 333-37402), which was effective on July 28, 2000. Additionally, the underwriters exercised their over-allotment option and purchased an additional 600,000 shares of the Company's common stock, at \$10 per share, on August 30, 2000. Total proceeds of this offering, including the exercise of the over-allotment option, were approximately \$46.3 million, net of underwriting fees and offering expenses of approximately \$5.7 million.

During 2002, the Company issued a total of 48,491 unregistered shares of its common stock with a weighted average fair value at grant date of approximately \$7.40 per share to third parties.

The Company repurchased 46,300 shares of its common stock at an aggregate cost of approximately \$77 during the year ended December 31, 2002 pursuant to the stock repurchase program approved by the Company's Board of Directors in November 2002. Under its stock repurchase program the Company was authorized to repurchase up to 2,453,700 additional Keryx shares as of December 31, 2002.

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NOTE 7 - STOCKHOLDERS' EQUITY (IN THOUSANDS, EXCEPT SHARE AND PER SHARE AMOUNTS) (CONTINUED)

STOCK OPTION PLANS

The Company has in effect the following stock option plans.

a. The "1999 plan" adopted in November 1999, pursuant to which the Company's board of directors could grant stock-based awards to directors, consultants and employees. The plan authorizes grants to purchase up to 4,230,000 shares of authorized but unissued common stock at a 1:1 ratio. The plan limits the term of each option, to a term of no more than twenty-five (25) years from the date of the grant, unless authorized by the board. The plan is administered by the board of directors or a committee appointed by the Board, which has the authority, in its discretion, to determine the terms and conditions of any option granted to a Company service provider, including the vesting schedule.

b. The "2000 plan" adopted in June 2000, pursuant to which the compensation committee of the Company's board of directors could grant stock-based awards to directors, consultants and employees. The 2000 plan authorizes grants to purchase up to 4,455,000 shares of authorized but unissued common stock at a 1:1 ratio. The plan limits the term of each option, to a term of no more than ten (10) years from the date of the grant, unless authorized by the board.

c. The "Non-plan" adopted in February 2000, pursuant to which the Company's board of directors granted options, which are not part of any plan, to non-employee directors of the Company to purchase up to 240,000 shares of authorized but unissued common stock at a 1:1 ratio. The options issued by the board of directors pursuant to the Non-plan have a life of ten (10) years from the date of their grant.

d. The "2002 CEO Incentive Plan" adopted in December 2002, pursuant to which the Company's board of directors granted an option to the newly-appointed Chief Executive Officer of the Company to purchase up to 2,002,657 shares of authorized but unissued common stock at a 1:1 ratio. The option has a term of no

more than ten (10) years plus one day from the date of the grant, unless otherwise authorized by the Company's board of directors. The option granted to the newly appointed Chief Executive Officer was part of a total grant of options issued pursuant to the 1999 and 2000 Plans and the 2002 CEO Incentive Plan, to purchase a total of 4,050,000 shares of our common stock. Of these options, one-third (or 1,350,000) vest over a three-year period and two-thirds (or 2,700,000) vest upon the earlier of the achievement of certain performance-based milestones or December 23, 2012. In addition, in the event of a merger, acquisition or other change of control or in the event that the Company terminates the Chief Executive Officer's employment, either without cause or as a result of his death or disability, or he terminates his employment for good reason, the exercisability of any of the options described in this paragraph that are unexercisable at the time of such event or termination shall accelerate and the time period during which he shall be allowed to exercise such options shall be extended to the shorter of two years from the date of the termination of his employment or December 24, 2012. Additionally, the Company's board of directors shall have the discretion to accelerate all or a portion of these options at any time.

The following table summarizes stock options authorized by the Company as of December 31, 2002.

Stock Options	Exercise Price Per Share	Authorized	Outstanding	Exercised	Exercisable	Available For Grant
1999 plan	\$0.10-\$ 1.30	4,230,000	4,058,500	171,500	3,666,157	--
2000 plan	\$1.07-\$19.00	4,455,000	3,088,870	--	605,455	1,366,130
2002 CEO Incentive	\$1.30	2,002,657	2,002,657	--	--	--
Non-plan	\$0.33	240,000	195,000	22,500	195,000	22,500
Totals		10,927,657	9,345,027	194,000	4,466,612	1,388,630

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NOTE 7 - STOCKHOLDERS' EQUITY (IN THOUSANDS, EXCEPT SHARE AND PER SHARE AMOUNTS)
(CONTINUED)

A summary of the status of the Company's stock options as of December 31, 2002, 2001, 2000, and changes during the years then ended is presented in the tables below.

	Outstanding Stock Options		
	Shares Available	Number of Shares	Weighted-Average Exercise Price
Balance, December 31, 1999	127,968	4,102,032	\$ 0.10
Authorized	4,695,000		
Granted	(526,700)	526,700	\$ 5.53
Exercised	--	--	\$ --
Canceled	90,000	(90,000)	\$ 0.23
Balance, December 31, 2000	4,386,268	4,538,732	\$ 0.73
Granted	(996,696)	996,696	\$ 6.26
Exercised	--	(176,000)	\$ 0.13
Canceled	173,332	(173,332)	\$ 2.14
Balance, December 31, 2001	3,562,904	5,186,096	\$ 1.76
Authorized	2,002,657		

Granted	(4,398,884)	4,398,884	\$	1.40
Exercised	--	(18,000)	\$	0.10
Canceled	221,953	(221,953)	\$	5.15
	-----	-----		
Balance, December 31, 2002	1,388,630	9,345,027	\$	1.51
	=====	=====		
Exercisable at December 31, 2000		3,640,157	\$	0.13
		=====		
Exercisable at December 31, 2001		4,090,983	\$	0.53
		=====		
Exercisable at December 31, 2002		4,466,612	\$	1.12
		=====		

	For the year ended December 31		
	-----	-----	-----
	2002	2001	2000
	-----	-----	-----
Weighted-average fair value of options granted during the period at an exercise price equal to market price at issue date	\$ 1.02	\$ 3.09	\$ 6.52
Weighted-average exercise price of options granted during the period at an exercise price equal to market price at issue date	\$ 1.38	\$ 6.26	\$ 5.53
Weighted-average fair value of options granted during the period at an exercise price greater than market price at issue date	\$ 1.48	\$ NA	\$ NA
Weighted-average exercise price of options granted during the period at an exercise price greater than market price at issue date	\$ 1.97	\$ NA	\$ NA

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NOTE 7 - STOCKHOLDERS' EQUITY (IN THOUSANDS, EXCEPT SHARE AND PER SHARE AMOUNTS)
(CONTINUED)

The following table summarizes information about stock options outstanding at December 31, 2002:

Range of Exercise Prices	Options Outstanding			Options Exercisable		
	Number Outstanding	Weighted-Average Remaining Contractual Life (Years)	Weighted-Average Exercise Price	Number Exercisable	Weighted-Average Exercise Price	
\$ 0.10	3,698,032	15.6	\$ 0.10	3,653,032	\$ 0.10	
\$ 0.11 - \$ 0.50	210,000	7.1	\$ 0.34	208,125	\$ 0.34	
\$ 0.51 - \$ 3.00	4,298,984	9.9	\$ 1.32	35,000	\$ 1.70	
\$ 3.01 - \$ 5.75	645,936	8.8	\$ 5.19	250,754	\$ 5.17	
\$ 5.76 - \$10.00	319,975	8.2	\$ 8.14	188,298	\$ 8.91	
\$10.01 - \$19.00	172,100	7.9	\$ 11.91	131,403	\$ 11.78	
	-----			-----		
	9,345,027			4,466,612		
	=====			=====		

At December 31, 2002, 134,000 options issued to directors and employees and 60,000 options issued to consultants have been exercised. The terms of the outstanding options at December 31, 2002 are as follows:

TO DIRECTORS AND EMPLOYEES

Range of Exercise Prices	Options Outstanding			Options Exercisable		
	Number Outstanding	Weighted-Average Remaining Contractual Life (Years)	Weighted-Average Exercise Price	Number Exercisable	Weighted-Average Exercise Price	
\$ 0.10	3,487,120	16.4	\$ 0.10	3,487,120	\$ 0.10	
\$ 0.11 - \$ 0.50	210,000	7.1	\$ 0.34	208,125	\$ 0.34	
\$ 0.51 - \$ 3.00	4,198,984	10.0	\$ 1.31	35,000	\$ 1.70	
\$ 3.01 - \$ 5.75	645,936	8.8	\$ 5.19	250,754	\$ 5.17	
\$ 5.76 - \$10.00	280,975	8.2	\$ 8.22	170,048	\$ 9.01	
\$10.01 - \$19.00	162,100	7.9	\$ 11.86	121,403	\$ 11.71	
	8,985,115			4,272,450		

As of December 31, 2002, 2,715,000 options issued to directors and employees are milestone-based.

TO CONSULTANTS

Range of Exercise Prices	Options Outstanding			Options Exercisable		
	Number Outstanding	Weighted-Average Remaining Contractual Life (Years)	Weighted-Average Exercise Price	Number Exercisable	Weighted-Average Exercise Price	
\$ 0.10	210,912	14.4	\$ 0.10	165,912	\$ 0.10	
\$ 0.11 - \$ 0.50	--	--	\$ --	--	\$ --	
\$ 0.51 - \$ 3.00	100,000	4.9	\$ 1.97	--	\$ 1.97	
\$ 3.01 - \$ 5.75	--	--	\$ --	--	\$ --	
\$ 5.76 - \$10.00	39,000	8.7	\$ 7.95	18,250	\$ 7.58	
\$10.01 - \$19.00	10,000	7.6	\$ 12.64	10,000	\$ 12.64	
	359,912			194,162		

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NOTE 7 - STOCKHOLDERS' EQUITY (IN THOUSANDS, EXCEPT SHARE AND PER SHARE AMOUNTS)
(CONTINUED)

As of December 31, 2002, 145,000 options issued to consultants are milestone-based.

The Company applies APB Opinion No. 25 in accounting for its options granted to directors and employees. For the years ended December 31, 2002, 2001 and 2000, the Company has recorded non-cash compensation expense of \$105, \$335 and \$3,556, respectively, and non-cash compensation expense of \$1, \$13 and \$348, respectively, in regard to these options has been deferred. No stock-based employee compensation cost is reflected in net loss for the year, as all options granted under those plans had an exercise price equal to the market value of the underlying common stock on the date of grant.

Had the compensation expenses for stock options granted to employees and directors under the Company's stock option plans been determined based on fair value at the grant dates consistent with the method of SFAS No. 123, the Company's net income and earnings per share would have reduced to the pro forma amount below:

	For the year ended December 31			Amounts Accumulated During the Development Stage
	2002	2001	2000	
Net loss, as reported	\$ (11,783)	\$ (9,806)	\$ (11,489)	\$ (45,502)
Add: Stock-based compensation expense to employees and directors determined included in reported net loss, net of related tax effects	104	335	3,556	8,960
Deduct: Total stock-based compensation expense to employees and directors determined under fair value based method for all awards, net of related tax effects	(1,282)	(1,181)	(3,569)	(11,043)
Pro forma net loss	\$ (12,961)	\$ (10,652)	\$ (11,502)	\$ (47,585)
Losses per common share, Basic and diluted:				
As reported	\$ (0.59)	\$ (0.50)	\$ (0.89)	\$ (3.55)
Pro forma	\$ (0.65)	\$ (0.54)	\$ (0.89)	\$ (3.72)

The value of these options has been estimated using the Black-Scholes model. The assumptions used in the calculation of the fair value for compensation expense during the year ended December 31, 2002 were a weighted average expected life of 1-4 years, an expected volatility rate of 78.65-83.09% and a risk-free interest rate of 1.5%-3.5%. The assumptions used in the calculation of the fair value for compensation expense during the year ended December 31, 2001 were a weighted average expected life of 1-3 years, an expected volatility rate of 70%-98% and a risk-free interest rate of 2%-7%. The assumptions used in the calculation of the fair value for compensation expense during the year ended December 31, 2000 were a weighted average expected life of 3 years, an expected volatility rate of 70-75% and a risk-free interest rate of 5-6%.

The Company applies EITF 96-18 "Accounting for Equity Instruments that are Issued to Other Than Employees for Acquiring, or in Conjunction with Selling, Goods or Services," in accounting for its options granted to consultants. For the years ended December 31, 2002, 2001 and 2000, the Company recorded non-cash compensation expense of negative \$132, negative \$316 and \$592, respectively, and non-cash compensation expense of \$20, \$153 and \$1,350, respectively, in regard to these options which have been deferred. Unvested options are revalued at every reporting period over the vesting period in order to determine the compensation expense. The value of these options has been estimated using the Black-Scholes model under the assumptions stated above.

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NOTE 7 - STOCKHOLDERS' EQUITY (IN THOUSANDS, EXCEPT SHARE AND PER SHARE AMOUNTS)
(CONTINUED)

WARRANTS

A summary of the status of the Company's warrants issued as of December 31, 2002, 2001, 2000, and changes during the years then ended is presented in the tables below.

	Warrants	Weighted Average Exercise Price
Balance, December 31, 1999	678,832	\$ 0.0067
Issued	116,090	\$ 1.94
Exercised	(109,504)	\$ 0.0067
Canceled	--	\$ --

Balance, December 31, 2000	685,418	\$ 0.33
Issued	--	\$ --
Exercised	(137,918)	\$ 0.0067
Canceled	(2,699)	\$ 0.0067

Balance, December 31, 2001	544,801	\$ 0.42
Issued	500,000	\$ 6.19
Exercised	--	\$ --
Canceled	--	\$ --

Balance, December 31, 2002	1,044,801	\$ 3.18
=====		

	For the year ended December 31		
	2002	2001	2000
	-----	-----	-----
Weighted-average fair value of warrants granted during the period at an exercise price equal to market price at issue date	\$ 2.33	\$ --	\$ 0.98
Weighted-average exercise price of warrants granted during the period at an exercise price equal to market price at issue date	\$ 6.19	\$ --	\$ 1.94

At December 31, 2002, 247,422 warrants have been exercised and 2,699 warrants have been were cancelled as part of cashless exercises. The terms of outstanding warrants December 31, 2002 are as follows:

Warrants Outstanding			Warrants Exercisable		
Range of Exercise Prices	Number Outstanding	Weighted-Average Remaining Contractual Life (Years)	Weighted-Average Exercise Price	Number Exercisable	Weighted-Average Exercise Price
-----	-----	-----	-----	-----	-----
\$ 0.0067-\$ 0.10	447,564	6.9	\$ 0.0067	72,564	\$ 0.0067
\$ 0.11 - \$ 0.50	--	--	\$ --	--	\$ --
\$ 0.51 - \$ 3.00	97,237	0.1	\$ 1.94	97,237	\$ 1.94
\$ 3.01 - \$ 5.75	--	--	\$ --	--	\$ --
\$ 5.76 - \$10.00	500,000	9.0	\$ 6.19	--	\$ 6.19
\$10.01 - \$19.00	--	--	\$ --	--	\$ --
	-----			-----	
	1,044,801			169,801	
	=====			=====	

As of December 31, 2002, 875,000 warrants issued to licensors are milestone-based.

NOTE 7 - STOCKHOLDERS' EQUITY (IN THOUSANDS, EXCEPT SHARE AND PER SHARE AMOUNTS)
(CONTINUED)

In January 2000, the board of directors granted warrants to a related party to purchase 116,090 shares of common stock as a finder's fee in connection with the private placement. The costs of \$114 were recorded against proceeds from the private placement.

In January 2002, the board of directors granted warrants exercisable for 500,000 shares of the Company's common stock, to Yissum Research and Development Company of the Hebrew University of Jerusalem in partial consideration for the grant by

Yissum of an exclusive license to technology relevant to the Company's core business. The warrants vest, in up to four tranches, only upon the achievement of specified research and development milestones.

The Company applies EITF 96-18 in accounting for its warrants granted to investors and others (non-employees and non-directors). For the years ended December 31, 2002, 2001 and 2000, the Company recorded non-cash compensation expense of (\$1,358), \$103 and 1,704, respectively, and non-cash compensation expense of \$157, \$944 and \$2,107, respectively, in regard to these options have been deferred. Unvested warrants are revalued at every reporting period over the vesting period in order to determine the compensation expense.

The value of these warrants has been estimated using the Black-Scholes model. The assumptions used in the calculation of the fair value for compensation expense during the year ended December 31, 2002 were a weighted average expected life of 0-3 years, an expected volatility rate of 78.65-83.09% and a risk-free interest rate of 1.5%-3.5%. The assumptions used in the calculation of the fair value for compensation expense during the year ended December 31, 2001 were a weighted average expected life of 0-3 years, an expected volatility rate of 78.85% and a risk-free interest rate of 2%. The assumptions used in the calculation of the fair value for compensation expense during the year ended December 31, 2000 were a weighted average expected life of 3-5 years, an expected volatility rate of 70-75% and a risk-free interest rate of 5-6%.

NOTE 8 - FAIR VALUE OF FINANCIAL INSTRUMENTS

The Company's financial instruments at December 31, 2002 and 2001 consisted of cash and cash equivalents, investment securities, accrued interest receivable, other receivables and prepaid expenses, deposits in respect of employee severance obligations, accounts payable and accrued expenses, accrued compensation and related liabilities and liability in respect of employee severance obligations. The carrying amounts of all financial instruments other than investment securities approximates their fair value for all years presented. The difference between the carrying value and fair value of investment securities held-to-maturity is set forth in Note 3 above.

The following methods and assumptions were used to estimate fair value of each class of financial instruments:

Cash and cash equivalents, accrued interest receivable, other receivables and prepaid expenses, deposits in respect of employee severance obligations, accounts payable and accrued expenses, and accrued compensation and related liabilities: the carrying amounts approximate fair value because of the relatively short maturity of these instruments.

Investment securities: the fair values of debt securities (held-to-maturity) are based on quoted market prices for these investments at the reporting date.

Liability in respect of employee severance obligations: the carrying amount reflects the approximate fair value inclusive of future salary adjustments.

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NOTE 9 - TAXES ON INCOME (IN THOUSANDS, UNLESS OTHERWISE NOTED)

At December 31, 2002, for U.S. income tax purposes, the Company had approximately \$10.5 million of net operating loss carryforwards from November 1999 through December 31, 2002. Such net operating loss carryforwards begin expiring in 2019. Deferred tax assets of Partec were lost upon assumption of operations by Keryx (see Note 1).

Because of the Company's lack of earnings history, the US deferred tax assets have been fully offset by a valuation allowance. Deferred tax assets in the financial statements relate to the Israeli subsidiaries, which have taxable income that is eliminated upon consolidation. The valuation allowance for

deferred tax assets was \$18.3 million as of December 31, 2002.

The Israeli subsidiaries are subject to the Income Tax Regulations (Guidelines for Management of the Books and Records of Companies with Foreign Investment and of Certain Partnerships and Determination of Taxable Income), 1986, which state that the Israeli subsidiaries income may be calculated on the basis of their results in dollars.

In September 2001, one of the Company's Israeli subsidiaries received the status of an "Approved Enterprise" which grants certain tax benefits in Israel in accordance with Paragraph 51 of the "Law for the Encouragement of Capital Investments, 1959". In June 2002, the subsidiary received formal temporary notification that it had met the requirements for implementation of the benefits under this program.

Because of this "Approved Enterprise" status, income arising from the subsidiary's approved activities is subject to zero tax under the "Alternative Benefit Method" for a period of ten years. In the event of distribution by the subsidiary of a cash dividend out of retained earnings which were tax exempt due to the Approved Enterprise status, the subsidiary would have to pay a 10% corporate tax on the amount distributed, and the recipient would have to pay a 15% tax (to be withheld at source) on the amounts of such distribution received. Should the subsidiary derive income from sources other than the Approved Enterprise during the relevant period of benefits, such income will be taxable at the tax rate in effect at that time (currently 36%).

Under its Approved Enterprise status, the subsidiary must maintain certain conditions and submit periodic reports. Failure to comply with the conditions of the Approved Enterprise status could cause the subsidiary to lose previously accumulated tax benefits. Through December 31, 2002, our subsidiary will have received tax benefits of approximately \$731. As a result of recent cost reductions, as described in Note 11, the staff and activity of this subsidiary have been materially reduced. In January 2003, the subsidiary notified the Israeli governmental authority of such reductions and requested that the program instituted prior to the cost reductions be approved. In February 2003, the Israeli governmental authority informed the subsidiary that it may be in non-compliance with the conditions of its Approved Enterprise program because of the indicated reductions. Nevertheless, the Israeli governmental authority wrote that any decision in connection with the subsidiary's Approved Enterprise program has been frozen until December 31, 2003, pending receipt of the subsidiary's future plans. The Company is of the opinion that the reduction of its activity should not have a bearing on benefits received as of December 31, 2002. (See Note 12 regarding subsequent events.)

The tax expense reported in the consolidated financial statements relates to the subsidiaries in Israel. Income tax expense attributable to income from continuing operations was \$51, \$197 and \$220 for the years ended December 31, 2002, 2001 and 2000, respectively, and differed from amounts computed by applying the US federal income tax rate of 35% to pretax income from continuing operations as a result of the following:

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NOTE 9 - TAXES ON INCOME (IN THOUSANDS, UNLESS OTHERWISE NOTED) (CONTINUED)

	For the year ended December 31,		
	2002	2001	2000
Losses before taxes on income, as reported in the consolidated statements of operations	\$ (11,732)	\$ (9,609)	\$ (11,269)

Computed "expected" tax benefit	\$ (4,106)	\$ (3,363)	\$ (3,944)
Increase (decrease) in income taxes resulting from:			
Expected benefit from state & local taxes	(1,115)	(913)	(1,673)
Change in the balance of the valuation allowance for deferred tax assets allocated to income tax expense	5,960	4,429	5,711
Permanent differences	(107)	(70)	--
Effect of foreign operations	(581)	114	126
	-----	-----	-----
	\$ 51	\$ 197	\$ 220
	=====	=====	=====

The significant components of deferred income tax expense (benefit) attributable to income from continuing operations are as follows:

	For the year ended December 31,		
	2002	2001	2000
	-----	-----	-----
Deferred tax expense (benefit)	\$ (5,947)	\$ (4,544)	\$ (5,711)
Increase in the valuation allowance for deferred tax assets	5,960	4,429	5,711
	-----	-----	-----
	\$ 13	\$ (115)	\$ --
	=====	=====	=====

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NOTE 9 - TAXES ON INCOME (IN THOUSANDS, UNLESS OTHERWISE NOTED) (CONTINUED)

The tax effects of temporary differences that give rise to significant portions of the deferred tax assets and deferred tax liabilities at December 31, 2002 and 2001 are presented below.

	December 31, 2002	December 31, 2001
	-----	-----
Deferred tax assets:		
Net operating loss	\$ 4,655	\$ 2,589
Timing differences (primarily relating to compensation and expenses capitalized for tax)	13,651	9,757
Foreign timing differences (primarily relating to compensation)	102	115
	-----	-----
Total gross deferred assets	18,408	12,461
Less valuation allowance	(18,306)	(12,346)
	-----	-----
Net deferred tax assets	\$ 102	\$ 115
	=====	=====

NOTE 10 - COMMITMENTS AND CONTINGENCIES (IN THOUSANDS, UNLESS OTHERWISE NOTED)

LICENSE AGREEMENTS

The Company entered into a license agreement with Alfa Wassermann SpA, which grants it the exclusive rights to KRX-101 for the treatment of various conditions, including, but not limited to, diabetic nephropathy, diabetic retinopathy and diabetic neuropathy in the United States, Canada, Japan, Australia, New Zealand, South Africa and Israel, and entitles Alfa Wassermann to ongoing royalties and fixed milestone payments. The license also requires Alfa Wassermann to pay the Company a royalty to the extent that Alfa Wasserman or its sub-licensees receive revenues from products that incorporate information or know-how developed by the Company and commits Alfa Wassermann to participate in the costs incurred by the Company in the development of data or intellectual property that Alfa Wasserman decides to utilize. Unless terminated for reason of breach or other customary termination provisions, the license terminates upon the later of the expiration of all underlying patent rights or ten years from the first commercial sale of KRX-101 by the Company. In addition, the Company has authorization from Alfa Wassermann to negotiate European and other territorial rights for KRX-101 on its behalf.

Pursuant to a license with Opocrin, SpA, a private drug manufacturer, the Company has a non-exclusive worldwide license to the manufacturing process of KRX-101 (Sulodexide) for a period of twelve years from the date of the first commercial sale of the product. Notwithstanding this right, Opocrin shall have the right to terminate the agreement on 60 days' notice in the event that the Company has not submitted an NDA to the FDA by December 31, 2007.

Pursuant to a license with Children's Medical Center Corporation, (CMCC), the Company has the exclusive right to commercialize the KinAce platform and practice the claims contained in one granted patent and ten patent applications owned by them. Unless terminated for breach or other customary termination provisions, the license terminates upon the later of November 2014 or the expiration of the last patent covered by the license.

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NOTE 10 - COMMITMENTS AND CONTINGENCIES (IN THOUSANDS, UNLESS OTHERWISE NOTED) (CONTINUED)

The license obligates the Company to meet certain financing and development milestones. To date, the Company has met all of its milestones under this agreement. Should CMCC reasonably believe that the Company failed to meet any of the development milestones that remain to be fulfilled because it did not devote diligent efforts and adequate resources, the license could be terminated, which could materially affect the Company's operations. During 2003, an amendment to the license agreement was signed, whereby the date for meeting one of the development milestones was extended to December 31, 2003.

The Company entered into a license agreement with Yissum Research and Development Company of the Hebrew University of Jerusalem ("Yissum"). The agreement provides the Company with an exclusive worldwide license to a novel technology known as Small Integrated Building-blocks ("SIB"), for the conversion of peptides and other existing drugs into small molecules that have the potential for oral delivery. The Company has the right to terminate the agreement on 60 days' notice. The license obligates it to use its reasonable best efforts to commercialize and market the technology, and contains certain development and financing milestones. Unless terminated for breach or other customary termination provisions, the license terminates upon the later of (i) the expiration of all valid claims of any licensed patent rights and research patent rights, or (ii) thirteen (13) years after the first commercial sale of a product.

The Company has undertaken to make milestone payments to its licensors, contingent upon attaining certain goals, of up to approximately \$5 million. In certain cases, such payments will reduce any royalties to be paid on sales of

related products. In the event that the milestones are not achieved, the Company remains obligated to pay one licensor \$50 annually thereafter until the licenses expire. As of December 31, 2002, the Company has recorded a total of \$1,209 in license and milestone payments in regard to these license agreements.

RESEARCH & DEVELOPMENT AND OTHER AGREEMENTS

The Company has entered into various research & development and other agreements under which it is obligated to make payments of approximately \$1,734 through December 2005.

As further discussed in Note 12, in January 2003, approximately \$948 of these agreements have been subsequently terminated.

LEASES

The Company leases its laboratory and office space under two separate operating lease agreements that expire through 2005. Certain of the facility leases provide the Company with the option to renew its lease for an extended period. Total rental expense is approximately \$511, \$567 and \$76 for the years ended December 31, 2002, 2001, and 2000, respectively.

Future minimum lease commitments as of December 31, 2002 are approximately as follows:

2003	\$407
2004	\$380
2005	\$380

At December 31, 2002 the Company has provided bank guarantees of approximately \$212 in connection with its leases.

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NOTE 11 - RESTRUCTURING (IN THOUSANDS, UNLESS OTHERWISE NOTED)

The Company implemented a strategic reorganization, initiated in August 2002 and continuing through year's end. The reorganization included staff reductions and pay cuts of 5-10%. The program was designed to substantially reduce its early stage research expenditures so it could focus primarily on the development of its lead product candidate KRX-101 for the treatment of diabetic nephropathy and on the acquisition of additional clinical stage compounds. The reorganization included a 46 person, or approximate 70%, reduction in the Company's work force, including senior management, administrative staff, and research personnel involved in early stage projects. As of December 31, 2002, 25 employees had left under the Company's restructuring plan. As part of its focus on the core indication of its lead product, the Company also announced that it had terminated the AIDS-related kidney disease (HIVAN) clinical trial of KRX-101.

Through December 31, 2002, the Company had total accumulated expenses of approximately \$1,114 for severance benefits for employees terminated under the Company's reorganization. Consequently, the Company took a charge of approximately \$228, approximately \$149 of which was included in general & administrative expenses and approximately \$79 of which was included in research & development expenses. The remaining amount of approximately \$886 had been expensed as part of the Company's ongoing accrual for employee severance benefits in accordance with Israeli law.

As of December 31, 2002, 25 employees have left under the Company's restructuring plan and approximately \$158 of severance benefits have been paid.

As of December 31, 2002, approximately \$956 in severance obligations related to the restructuring is included in accrued compensation and related liabilities. A portion of this amount was formerly included in liability in respect of employee severance obligations and was reclassified to current liabilities after it

became short-term in nature. With respect to this liability, the Company had funded deposits in respect to employee severance obligations of approximately \$299 that was reclassified to current assets, as it will be redeemed in the short-term.

NOTE 12 - SUBSEQUENT EVENTS (IN THOUSANDS, UNLESS OTHERWISE NOTED)

Sponsored Research Agreements: In January 2003, the Company terminated several sponsored research agreements with Yissum, including the agreement pursuant to which it had sponsored research at the Hebrew University in connection with the development of the SIB technology. As a result of such terminations, the Company has reduced approximately \$948 of future research and development commitments.

Rent Sharing Agreement: In February 2003, the Company executed a one-year Rent Sharing Agreement with ACCESS Oncology, Inc. ("Access") pursuant to which the Company gained access to space and services at its New York headquarters. The Company expects to incur approximately \$185 in expenses pursuant to this agreement, although the amount is subject to renegotiation during its term. Moreover, as this agreement is considered a related party transaction, it has been reviewed by the Company's board of directors and approved by a majority of the Company's disinterested directors.

Further Restructuring: In March 2003, the Company gave notice of termination to an additional 5 employees, all based in its Jerusalem laboratory facility. As a result of these actions, the Company believes it will need to record an asset impairment charge during the first quarter of 2003, although the amount of this impairment charge and other costs associated with the cessation of its Jerusalem laboratory activities cannot be determined at this time. The carrying value of the assets that could be impaired, thus resulting in a non-cash write down, including fixed assets and patents, totals approximately \$3,755. The Company may also incur other costs related to the restructuring of its research activities. The portion of the Company's lease obligations relating to the Jerusalem laboratory facility amounts to approximately \$792 through the end of 2005. Costs of severance benefits for the employees who received notice of termination in March 2003 are accrued to balance sheet date as part of the liability in respect of employee severance benefits in accordance with Israeli law (see Note 6 above). (See Note 9 with regard to potential liability in respect of tax benefits received by a subsidiary of the Company as an Approved Enterprise.)

THE SECURITIES REPRESENTED BY THIS CERTIFICATE ARE NOT TRANSFERABLE WITHOUT THE EXPRESS WRITTEN CONSENT OF LARAKO BIOPHARMACEUTICALS, INC. (THE "COMPANY") AND HAVE NOT BEEN REGISTERED UNDER THE SECURITIES ACT OF 1933 OR ANY APPLICABLE STATE SECURITIES LAWS, AND MAY NOT BE SOLD, OFFERED FOR SALE, PLEDGED OR HYPOTHECATED OR OTHERWISE TRANSFERRED IN THE ABSENCE OF A REGISTRATION STATEMENT IN EFFECT WITH RESPECT TO THE SECURITIES UNDER SUCH ACT OR AN EXEMPTION THEREFROM. ANY SUCH TRANSFER MAY ALSO BE SUBJECT TO APPLICABLE STATE SECURITIES LAWS.

KERYX BIOPHARMACEUTICALS, INC.

Warrant for the Purchase of Shares of
Common Stock

No. 5

93,750 Shares

FOR VALUE RECEIVED, KERYX BIOPHARMACEUTICALS, INC., a Delaware corporation (the "Company"), hereby certifies that YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM or its registered assigns (the "Holder") is entitled to purchase from the Company, subject to the provisions of this Warrant, at any time commencing upon the date (the "Vesting Date") of approval of the first Investigational New Drug Application by the United States Food and Drug Administration for the technologies granted to the Company by the Children's Medical Center Corporation ("CMCC") pursuant to a license agreement entered into by and among the Company and CMCC on November 18 1999, and prior to 5:00 P.M., New York City time, on the date that is ten (10) years after the Vesting Date (the "Termination Date"), Ninety-Three Thousand Seven Hundred and Fifty (93,750) fully paid and non-assessable shares of the Common Stock, \$.001 par value, of the Company ("Common Stock") at an initial per share exercise price equal to \$.0067, or an initial aggregate exercise price of \$628.13. The number of shares of Common Stock to be received upon exercise of this Warrant and the price to be paid for each share of Common Stock are subject to possible adjustment from time to time as hereinafter set forth. The shares of Common Stock or other securities or property deliverable upon such exercise as adjusted from time to time is hereinafter sometimes referred to as the "Warrant Shares," the exercise price of a share of Common Stock in effect at any time and as adjusted from time to time is hereinafter sometimes referred to as the "Per Share Exercise Price" and the aggregate purchase price payable for the Warrant Shares hereunder is hereinafter sometimes referred to as the "Aggregate Exercise Price." The Aggregate Exercise Price is not subject to adjustment. The Per Share Exercise Price is subject to adjustment as hereinafter provided; in the event of any such adjustment, the number of Warrant Shares shall be adjusted by dividing the Aggregate Exercise Price by the Per Share Exercise Price in effect immediately after such adjustment. This Warrant is one of a duly authorized issue of Warrants constituting components of units being sold by the Company on the date hereof (collectively, the "Warrants").

1

1. Exercise of Warrant.

(a) This Warrant is not transferable and may not be assigned or otherwise disposed of by the Holder until the Vesting Date.

(b) This Warrant may be exercised in whole or in part, at any time by the Holder commencing upon the Vesting Date and prior to the Termination Date:

(i) by presentation and surrender of this Warrant (with the subscription form at the end hereof duly executed) at the address set forth in Subsection 8(a) hereof, together with payment, by certified or official bank check payable to the order of the Company, of the Aggregate Exercise Price or the proportionate part thereof if exercised in part.

(ii) by the surrender of this Warrant (with the cashless exercise form at

the end hereof duly executed) (a "Cashless Exercise") at the address set forth in Section 8(a) hereof. Such presentation and surrender shall be deemed a waiver of the Holder's obligation to pay the Aggregate Exercise Price, or the proportionate part thereof if this Warrant is exercised in part. In the event of a Cashless Exercise, the Holder shall exchange its Warrant for that number of Warrant Shares subject to such Cashless Exercise multiplied by a fraction, the numerator of which shall be the difference between (A) the last sale price of the Common Stock on the trading day prior to such date or, in case no such reported sales take place on such day, the average of the last reported bid and asked prices of the Common Stock on such day, in either case on the principal national securities exchange on which the Common Stock is admitted to trading or listed, or if not listed or admitted to trading on any such exchange, the representative closing sale price of the Common Stock as reported by the National Association of Securities Dealers, Inc. Automated Quotations System ("NASDAQ"), or other similar organization if NASDAQ is no longer reporting such information, or, if the Common Stock is not reported on NASDAQ, the high per share sale price for the Common Stock in the over-the-counter market as reported by the National Quotation Bureau or similar organization, or if not so available, the fair market value of the Common Stock as determined in good faith by the Board of Directors (the "Current Market Price") and (B) the Per Share Exercise Price, and the denominator of which shall be the then Current Market Price. For purposes of any computation under this Section 1(a), the then Current Market Price shall be based on the trading day immediately prior to the Cashless Exercise.

(c) If this Warrant is exercised in part only, the Company shall, upon presentation of this Warrant upon such exercise, execute and deliver (with the certificate for the Warrant Shares purchased) a new Warrant evidencing the rights of the Holder hereof to purchase the balance of the Warrant Shares purchasable hereunder upon the same terms and conditions as herein set forth. Upon proper exercise of this Warrant, the Company promptly shall deliver certificates for the Warrant Shares to the Holder duly legended as authorized by the subscription form. No fractional shares shall be issued upon exercise of this Warrant. With respect to any fraction of a share called for upon exercise hereof, the Company shall pay to the Holder an amount in cash equal to such fraction multiplied by the Current Market Price of one (1) share of Common Stock.

2. Reservation of Warrant Shares; Fully Paid Shares; Taxes. The Company hereby undertakes until expiration of this Warrant to reserve for issuance or delivery upon exercise of this Warrant, such number of shares of the Common Stock as shall be required for issuance and/or delivery upon exercise of this Warrant in full, and agrees that all Warrant Shares so issued and/or delivered will be validly issued, fully paid and non-assessable, and further agrees to pay all taxes and charges that may be imposed upon such issuance and/or delivery.

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3. Protection Against Dilution.

(a) In case the Company shall hereafter (i) pay a dividend or make a distribution on its capital stock in shares of Common Stock, (ii) subdivide its outstanding shares of Common Stock into a greater number of shares, (iii) combine its outstanding shares of Common Stock into a smaller number of shares or (iv) issue by reclassification of its Common Stock any shares of capital stock of the Company, the Per Share Exercise Price shall be adjusted to be equal to a fraction, the numerator of which shall be the Aggregate Exercise Price and the denominator of which shall be the number of shares of Common Stock or other capital stock of the Company which the Holder would have owned immediately following such action had this Warrant been exercised immediately prior thereto. An adjustment made pursuant to this Subsection 3(a) shall become effective immediately after the record date in the case of a dividend or distribution and shall become effective immediately after the effective date in the case of a subdivision, combination or reclassification.

(b) In the event of any capital reorganization or reclassification, or any

consolidation or merger to which the Company is a party other than a merger or consolidation in which the Company is the continuing corporation, or in case of any sale or conveyance to another entity of the property of the Company as an entirety or substantially as an entirety, or in the case of any statutory exchange of securities with another corporation (including any exchange effected in connection with a merger of a third corporation into the Company), the Holder of this Warrant shall have the right thereafter to receive on the exercise of this Warrant the kind and amount of securities, cash or other property which the Holder would have owned or have been entitled to receive immediately after such reorganization, reclassification, consolidation, merger, statutory exchange, sale or conveyance had this Warrant been exercised immediately prior to the effective date of such reorganization, reclassification, consolidation, merger, statutory exchange, sale or conveyance and in any such case, if necessary, appropriate adjustment shall be made in the application of the provisions set forth in this Section 3 with respect to the rights and interests thereafter of the Holder of this Warrant to the end that the provisions set forth in this Section 3 shall thereafter correspondingly be made applicable, as nearly as may reasonably be, in relation to any shares of stock or other securities or property thereafter deliverable on the exercise of this Warrant. The above provisions of this Subsection 3(b) shall similarly apply to successive reorganizations, reclassifications, consolidations, mergers, statutory exchanges, sales or conveyances. The issuer of any shares of stock or other securities or property thereafter deliverable upon the exercise of this Warrant shall be responsible for all of the agreements and obligations of the Company hereunder. Notice of any such reorganization, reclassification, consolidation, merger, statutory exchange, sale or conveyance and of said provisions so proposed to be made, shall be mailed to the Holders of the Warrants not less than 30 days prior to such event. A sale of all or substantially all of the assets of the Company for a consideration consisting primarily of securities shall be deemed a consolidation or merger for the foregoing purposes.

(c) No adjustment in the Per Share Exercise Price shall be required unless such adjustment would require an increase or decrease of at least \$0.05 per share of Common Stock; provided, however, that any adjustments that by reason of this Subsection 3(c) are not required to be made shall be carried forward and taken into account in any subsequent adjustment; provided, further, however, that adjustments shall be required and made in accordance with the provisions of this Section 3 (other than this Subsection 3(c)) not later than such time as may be required in order to preserve the tax-free nature of a distribution to the Holder of this Warrant or Common Stock issuable upon the exercise hereof. All calculations under this Section 3 shall be made to the nearest cent or to the nearest 1/100th of a share, as the case may be. Anything in this Section 3 to the contrary notwithstanding, the Company shall be entitled to make such reductions in the Per Share Exercise Price, in addition to those required by this Section 3, as it in its discretion shall deem to be advisable in order that any stock dividend, subdivision of shares or distribution of rights to purchase stock or securities

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convertible or exchangeable for stock hereafter made by the Company to its stockholders shall not be taxable.

(d) Whenever the Per Share Exercise Price is adjusted as provided in this Section 3 and upon any modification of the rights of a Holder of Warrants in accordance with this Section 3, the Company shall promptly provide a certificate of its Chief Accounting Officer setting forth the Per Share Exercise Price and the number of Warrant Shares after such adjustment or the effect of such modification, a brief statement of the facts requiring such adjustment or modification and the manner of computing the same and cause copies of such certificate to be mailed to the Holders of the Warrants.

(e) If, as a result of an adjustment made pursuant to this Section 3, the Holder of any Warrant thereafter surrendered for exercise shall become entitled to receive shares of two or more classes of capital stock or shares of Common Stock and other capital stock of the Company, the Board of Directors (whose

determination shall be conclusive and shall be described in a written notice to the Holder of any Warrant promptly after such adjustment) shall determine the allocation of the adjusted Per Share Exercise Price between or among shares or such classes of capital stock or shares of Common Stock and other capital stock.

4. Limited Transferability. In addition to the limitation on transferability set forth in Section 1(a) hereof, this Warrant may not be sold, transferred, assigned or hypothecated by the Holder except in compliance with the provisions of the Act and the applicable state securities "blue sky" laws, and is so transferable only upon the books of the Company which it shall cause to be maintained for such purpose. The Company may treat the registered Holder of this Warrant as he or it appears on the Company's books at any time as the Holder for all purposes. The Company shall permit any Holder of a Warrant or his duly authorized attorney, upon written request during ordinary business hours, to inspect and copy or make extracts from its books showing the registered holders of Warrants. All Warrants issued upon the transfer or assignment of this Warrant will be dated the same date as this Warrant, and all rights of the holder thereof shall be identical to those of the Holder.

5. Loss, etc., of Warrant. Upon receipt of evidence satisfactory to the Company of the loss, theft, destruction or mutilation of this Warrant, and of indemnity reasonably satisfactory to the Company, if lost, stolen or destroyed, and upon surrender and cancellation of this Warrant, if mutilated, the Company shall execute and deliver to the Holder a new Warrant of like date, tenor and denomination.

6. Status of Holder. This Warrant does not confer upon the Holder any right to vote or to consent to or receive notice as a stockholder of the Company, as such, in respect of any matters whatsoever, or any other rights or liabilities as a stockholder, prior to the exercise hereof.

7. Notices. No notice or other communication under this Warrant shall be effective unless, but any notice or other communication shall be effective and shall be deemed to have been given, if the same is in writing and is mailed by first-class mail, postage prepaid, addressed to:

If to the Holder: If to the Holder: 46 Jabotinsky Street, Jerusalem, Israel
Attn: Avi Barak; or

If to the Company: If to the Company: 7 Hartom Street, POB 23706, Jerusalem,
Israel 91236 Attn: General Counsel

8. Headings. The headings of this Warrant have been inserted as a matter of convenience and shall not affect the construction hereof.

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9. Applicable Law. This Warrant shall be governed by and construed in accordance with the laws of the Commonwealth of Massachusetts, without regard to principles of conflicts of law. Notwithstanding anything to the contrary contained herein, in no event may the effective rate of interest collected or received by the Holder exceed that which may be charged, collected or received by the Holder under applicable law. The parties agree to settle any disputes through binding arbitration in the city of Boston.

IN WITNESS WHEREOF, the Company has caused this Warrant to be signed by its Chief Executive Officer and attested by its Secretary this 12th day of December 2001.

KERYX BIOPHARMACEUTICALS, INC.

By: /s/ Benjamin Corn

Name: Benjamin Corn, M.D.

Title: Chief Executive Officer and President

ATTEST:

/s/ Bob Trachtenberg

Secretary

(NOT PERMITTED UNTIL INITIAL VESTING DATE)

SUBSCRIPTION

The undersigned, _____, pursuant to the provisions of the foregoing Warrant, hereby elects to exercise the within Warrant to the extent of purchasing _____ shares of Common Stock thereunder and hereby makes payment of \$_____ by certified or official bank check in payment of the exercise price therefor.

The undersigned hereby represents and warrants to the Company that the undersigned is acquiring the shares of the Company's Common Stock pursuant to exercise of the within Warrant for investment purposes only. The undersigned hereby further acknowledges that the undersigned understands that such shares (a) have not been registered under the Securities Act of 1933, as amended, and are being issued to the undersigned by the Company in reliance upon the foregoing representation and warranty and (b) may not be resold except in accordance with the requirements of the Act, including Rule 144 thereunder, if applicable. The undersigned further consents to the placing of a legend on the certificates for the shares being purchased to the foregoing effect.

Dated: _____ Signature: _____
Address: _____

ASSIGNMENT

FOR VALUE RECEIVED _____ hereby sells, assigns and transfers unto _____ the foregoing Warrant and all rights evidenced thereby, and does irrevocably constitute and appoint _____, attorney, to transfer said Warrant on the books of Keryx Biopharmaceuticals, Inc.

Dated: _____ Signature: _____
Address: _____

CASHLESS EXERCISE

The undersigned _____, pursuant to the provisions of the foregoing Warrant, hereby elects to exchange its Warrant for _____ shares of Common Stock, par value \$.001 per share, of SignalSite, Inc. pursuant to the Cashless Exercise provisions of the Warrant.

Dated: _____ Signature: _____
Address: _____

PARTIAL ASSIGNMENT

FOR VALUE RECEIVED _____ hereby assigns and transfers unto _____ the right to purchase _____ shares of the Common Stock, no par value per share, of SignalSite, Inc. covered by the foregoing Warrant,

and a proportionate part of said Warrant and the rights evidenced thereby, and does irrevocably constitute and appoint _____, attorney, to transfer that part of said Warrant on the books of Keryx Biopharmaceuticals, Inc.

Dated: _____

Signature: _____

Address: _____

THE SECURITIES REPRESENTED BY THIS CERTIFICATE ARE NOT TRANSFERABLE WITHOUT THE EXPRESS WRITTEN CONSENT OF LARAKO BIOPHARMACEUTICALS, INC. (THE "COMPANY") AND HAVE NOT BEEN REGISTERED UNDER THE SECURITIES ACT OF 1933 OR ANY APPLICABLE STATE SECURITIES LAWS, AND MAY NOT BE SOLD, OFFERED FOR SALE, PLEDGED OR HYPOTHECATED OR OTHERWISE TRANSFERRED IN THE ABSENCE OF A REGISTRATION STATEMENT IN EFFECT WITH RESPECT TO THE SECURITIES UNDER SUCH ACT OR AN EXEMPTION THEREFROM. ANY SUCH TRANSFER MAY ALSO BE SUBJECT TO APPLICABLE STATE SECURITIES LAWS.

KERYX BIOPHARMACEUTICALS, INC.

Warrant for the Purchase of Shares of
Common Stock

No. 6

93,750 Shares

FOR VALUE RECEIVED, KERYX BIOPHARMACEUTICALS, INC., a Delaware corporation (the "Company"), hereby certifies that YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM or its registered assigns (the "Holder") is entitled to purchase from the Company, subject to the provisions of this Warrant, at any time commencing upon the date (the "Vesting Date") of approval of the first New Drug Application by the United States Food and Drug Administration for the technologies granted to the Company by the Children's Medical Center Corporation ("CMCC") pursuant to a license agreement entered into by and among the Company and CMCC on November 18 1999, and prior to 5:00 P.M., New York City time, on the date that is ten (10) years after the Vesting Date (the "Termination Date"), Ninety-Three Thousand Seven Hundred and Fifty (93,750) fully paid and non-assessable shares of the Common Stock, \$.001 par value, of the Company ("Common Stock") at an initial per share exercise price equal to \$.0067, or an initial aggregate exercise price of \$628.13. The number of shares of Common Stock to be received upon exercise of this Warrant and the price to be paid for each share of Common Stock are subject to possible adjustment from time to time as hereinafter set forth. The shares of Common Stock or other securities or property deliverable upon such exercise as adjusted from time to time is hereinafter sometimes referred to as the "Warrant Shares," the exercise price of a share of Common Stock in effect at any time and as adjusted from time to time is hereinafter sometimes referred to as the "Per Share Exercise Price" and the aggregate purchase price payable for the Warrant Shares hereunder is hereinafter sometimes referred to as the "Aggregate Exercise Price." The Aggregate Exercise Price is not subject to adjustment. The Per Share Exercise Price is subject to adjustment as hereinafter provided; in the event of any such adjustment, the number of Warrant Shares shall be adjusted by dividing the Aggregate Exercise Price by the Per Share Exercise Price in effect immediately after such adjustment. This Warrant is one of a duly authorized issue of Warrants constituting components of units being sold by the Company on the date hereof (collectively, the "Warrants").

1

1. Exercise of Warrant.

(a) This Warrant is not transferable and may not be assigned or otherwise disposed of by the Holder until the Vesting Date.

(b) This Warrant may be exercised in whole or in part, at any time by the Holder commencing upon the Vesting Date and prior to the Termination Date:

(i) by presentation and surrender of this Warrant (with the subscription form at the end hereof duly executed) at the address set forth in Subsection 8(a) hereof, together with payment, by certified or official bank check payable to the order of the Company, of the Aggregate Exercise Price or the proportionate part thereof if exercised in part.

(ii) by the surrender of this Warrant (with the cashless exercise form at

the end hereof duly executed) (a "Cashless Exercise") at the address set forth in Section 8(a) hereof. Such presentation and surrender shall be deemed a waiver of the Holder's obligation to pay the Aggregate Exercise Price, or the proportionate part thereof if this Warrant is exercised in part. In the event of a Cashless Exercise, the Holder shall exchange its Warrant for that number of Warrant Shares subject to such Cashless Exercise multiplied by a fraction, the numerator of which shall be the difference between (A) the last sale price of the Common Stock on the trading day prior to such date or, in case no such reported sales take place on such day, the average of the last reported bid and asked prices of the Common Stock on such day, in either case on the principal national securities exchange on which the Common Stock is admitted to trading or listed, or if not listed or admitted to trading on any such exchange, the representative closing sale price of the Common Stock as reported by the National Association of Securities Dealers, Inc. Automated Quotations System ("NASDAQ"), or other similar organization if NASDAQ is no longer reporting such information, or, if the Common Stock is not reported on NASDAQ, the high per share sale price for the Common Stock in the over-the-counter market as reported by the National Quotation Bureau or similar organization, or if not so available, the fair market value of the Common Stock as determined in good faith by the Board of Directors (the "Current Market Price") and (B) the Per Share Exercise Price, and the denominator of which shall be the then Current Market Price. For purposes of any computation under this Section 1(a), the then Current Market Price shall be based on the trading day immediately prior to the Cashless Exercise.

(c) If this Warrant is exercised in part only, the Company shall, upon presentation of this Warrant upon such exercise, execute and deliver (with the certificate for the Warrant Shares purchased) a new Warrant evidencing the rights of the Holder hereof to purchase the balance of the Warrant Shares purchasable hereunder upon the same terms and conditions as herein set forth. Upon proper exercise of this Warrant, the Company promptly shall deliver certificates for the Warrant Shares to the Holder duly legended as authorized by the subscription form. No fractional shares shall be issued upon exercise of this Warrant. With respect to any fraction of a share called for upon exercise hereof, the Company shall pay to the Holder an amount in cash equal to such fraction multiplied by the Current Market Price of one (1) share of Common Stock.

2. Reservation of Warrant Shares; Fully Paid Shares; Taxes. The Company hereby undertakes until expiration of this Warrant to reserve for issuance or delivery upon exercise of this Warrant, such number of shares of the Common Stock as shall be required for issuance and/or delivery upon exercise of this Warrant in full, and agrees that all Warrant Shares so issued and/or delivered will be validly issued, fully paid and non-assessable, and further agrees to pay all taxes and charges that may be imposed upon such issuance and/or delivery.

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3. Protection Against Dilution.

(a) In case the Company shall hereafter (i) pay a dividend or make a distribution on its capital stock in shares of Common Stock, (ii) subdivide its outstanding shares of Common Stock into a greater number of shares, (iii) combine its outstanding shares of Common Stock into a smaller number of shares or (iv) issue by reclassification of its Common Stock any shares of capital stock of the Company, the Per Share Exercise Price shall be adjusted to be equal to a fraction, the numerator of which shall be the Aggregate Exercise Price and the denominator of which shall be the number of shares of Common Stock or other capital stock of the Company which the Holder would have owned immediately following such action had this Warrant been exercised immediately prior thereto. An adjustment made pursuant to this Subsection 3(a) shall become effective immediately after the record date in the case of a dividend or distribution and shall become effective immediately after the effective date in the case of a subdivision, combination or reclassification.

(b) In the event of any capital reorganization or reclassification, or any

consolidation or merger to which the Company is a party other than a merger or consolidation in which the Company is the continuing corporation, or in case of any sale or conveyance to another entity of the property of the Company as an entirety or substantially as an entirety, or in the case of any statutory exchange of securities with another corporation (including any exchange effected in connection with a merger of a third corporation into the Company), the Holder of this Warrant shall have the right thereafter to receive on the exercise of this Warrant the kind and amount of securities, cash or other property which the Holder would have owned or have been entitled to receive immediately after such reorganization, reclassification, consolidation, merger, statutory exchange, sale or conveyance had this Warrant been exercised immediately prior to the effective date of such reorganization, reclassification, consolidation, merger, statutory exchange, sale or conveyance and in any such case, if necessary, appropriate adjustment shall be made in the application of the provisions set forth in this Section 3 with respect to the rights and interests thereafter of the Holder of this Warrant to the end that the provisions set forth in this Section 3 shall thereafter correspondingly be made applicable, as nearly as may reasonably be, in relation to any shares of stock or other securities or property thereafter deliverable on the exercise of this Warrant. The above provisions of this Subsection 3(b) shall similarly apply to successive reorganizations, reclassifications, consolidations, mergers, statutory exchanges, sales or conveyances. The issuer of any shares of stock or other securities or property thereafter deliverable upon the exercise of this Warrant shall be responsible for all of the agreements and obligations of the Company hereunder. Notice of any such reorganization, reclassification, consolidation, merger, statutory exchange, sale or conveyance and of said provisions so proposed to be made, shall be mailed to the Holders of the Warrants not less than 30 days prior to such event. A sale of all or substantially all of the assets of the Company for a consideration consisting primarily of securities shall be deemed a consolidation or merger for the foregoing purposes.

(c) No adjustment in the Per Share Exercise Price shall be required unless such adjustment would require an increase or decrease of at least \$0.05 per share of Common Stock; provided, however, that any adjustments that by reason of this Subsection 3(c) are not required to be made shall be carried forward and taken into account in any subsequent adjustment; provided, further, however, that adjustments shall be required and made in accordance with the provisions of this Section 3 (other than this Subsection 3(c)) not later than such time as may be required in order to preserve the tax-free nature of a distribution to the Holder of this Warrant or Common Stock issuable upon the exercise hereof. All calculations under this Section 3 shall be made to the nearest cent or to the nearest 1/100th of a share, as the case may be. Anything in this Section 3 to the contrary notwithstanding, the Company shall be entitled to make such reductions in the Per Share Exercise Price, in addition to those required by this Section 3, as it in its discretion shall deem to be advisable in order that any stock dividend, subdivision of shares or distribution of rights to purchase stock or securities

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convertible or exchangeable for stock hereafter made by the Company to its stockholders shall not be taxable.

(d) Whenever the Per Share Exercise Price is adjusted as provided in this Section 3 and upon any modification of the rights of a Holder of Warrants in accordance with this Section 3, the Company shall promptly provide a certificate of its Chief Accounting Officer setting forth the Per Share Exercise Price and the number of Warrant Shares after such adjustment or the effect of such modification, a brief statement of the facts requiring such adjustment or modification and the manner of computing the same and cause copies of such certificate to be mailed to the Holders of the Warrants.

(e) If, as a result of an adjustment made pursuant to this Section 3, the Holder of any Warrant thereafter surrendered for exercise shall become entitled to receive shares of two or more classes of capital stock or shares of Common Stock and other capital stock of the Company, the Board of Directors (whose

determination shall be conclusive and shall be described in a written notice to the Holder of any Warrant promptly after such adjustment) shall determine the allocation of the adjusted Per Share Exercise Price between or among shares or such classes of capital stock or shares of Common Stock and other capital stock.

4. Limited Transferability. In addition to the limitation on transferability set forth in Section 1(a) hereof, this Warrant may not be sold, transferred, assigned or hypothecated by the Holder except in compliance with the provisions of the Act and the applicable state securities "blue sky" laws, and is so transferable only upon the books of the Company which it shall cause to be maintained for such purpose. The Company may treat the registered Holder of this Warrant as he or it appears on the Company's books at any time as the Holder for all purposes. The Company shall permit any Holder of a Warrant or his duly authorized attorney, upon written request during ordinary business hours, to inspect and copy or make extracts from its books showing the registered holders of Warrants. All Warrants issued upon the transfer or assignment of this Warrant will be dated the same date as this Warrant, and all rights of the holder thereof shall be identical to those of the Holder.

5. Loss, etc., of Warrant. Upon receipt of evidence satisfactory to the Company of the loss, theft, destruction or mutilation of this Warrant, and of indemnity reasonably satisfactory to the Company, if lost, stolen or destroyed, and upon surrender and cancellation of this Warrant, if mutilated, the Company shall execute and deliver to the Holder a new Warrant of like date, tenor and denomination.

6. Status of Holder. This Warrant does not confer upon the Holder any right to vote or to consent to or receive notice as a stockholder of the Company, as such, in respect of any matters whatsoever, or any other rights or liabilities as a stockholder, prior to the exercise hereof.

7. Notices. No notice or other communication under this Warrant shall be effective unless, but any notice or other communication shall be effective and shall be deemed to have been given, if the same is in writing and is mailed by first-class mail, postage prepaid, addressed to:

If to the Holder: If to the Holder: 46 Jabotinsky Street, Jerusalem, Israel
Attn: Avi Barak; or

If to the Company: If to the Company: 7 Hartom Street, POB 23706, Jerusalem,
Israel 91236 Attn: General Counsel

8. Headings. The headings of this Warrant have been inserted as a matter of convenience and shall not affect the construction hereof.

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9. Applicable Law. This Warrant shall be governed by and construed in accordance with the laws of the Commonwealth of Massachusetts, without regard to principles of conflicts of law. Notwithstanding anything to the contrary contained herein, in no event may the effective rate of interest collected or received by the Holder exceed that which may be charged, collected or received by the Holder under applicable law. The parties agree to settle any disputes through binding arbitration in the city of Boston.

IN WITNESS WHEREOF, the Company has caused this Warrant to be signed by its Chief Executive Officer and attested by its Secretary this 12th day of December 2001.

KERYX BIOPHARMACEUTICALS, INC.

By: /s/ Benjamin Corn

Name: Benjamin Corn, M.D.

Title: Chief Executive Officer and President

ATTEST:

/s/ Bob Trachtenberg

Secretary

(NOT PERMITTED UNTIL INITIAL VESTING DATE)

SUBSCRIPTION

The undersigned, _____, pursuant to the provisions of the foregoing Warrant, hereby elects to exercise the within Warrant to the extent of purchasing _____ shares of Common Stock thereunder and hereby makes payment of \$_____ by certified or official bank check in payment of the exercise price therefor.

The undersigned hereby represents and warrants to the Company that the undersigned is acquiring the shares of the Company's Common Stock pursuant to exercise of the within Warrant for investment purposes only. The undersigned hereby further acknowledges that the undersigned understands that such shares (a) have not been registered under the Securities Act of 1933, as amended, and are being issued to the undersigned by the Company in reliance upon the foregoing representation and warranty and (b) may not be resold except in accordance with the requirements of the Act, including Rule 144 thereunder, if applicable. The undersigned further consents to the placing of a legend on the certificates for the shares being purchased to the foregoing effect.

Dated: _____ Signature: _____
Address: _____

ASSIGNMENT

FOR VALUE RECEIVED _____ hereby sells, assigns and transfers unto _____ the foregoing Warrant and all rights evidenced thereby, and does irrevocably constitute and appoint _____, attorney, to transfer said Warrant on the books of Keryx Biopharmaceuticals, Inc.

Dated: _____ Signature: _____
Address: _____

CASHLESS EXERCISE

The undersigned _____, pursuant to the provisions of the foregoing Warrant, hereby elects to exchange its Warrant for _____ shares of Common Stock, par value \$.001 per share, of SignalSite, Inc. pursuant to the Cashless Exercise provisions of the Warrant.

Dated: _____ Signature: _____
Address: _____

PARTIAL ASSIGNMENT

FOR VALUE RECEIVED _____ hereby assigns and transfers unto _____ the right to purchase _____ shares of the Common Stock, no par value per share, of SignalSite, Inc. covered by the foregoing Warrant,

and a proportionate part of said Warrant and the rights evidenced thereby, and does irrevocably constitute and appoint _____, attorney, to transfer that part of said Warrant on the books of Keryx Biopharmaceuticals, Inc.

Dated: _____

Signature: _____

Address: _____

THE SECURITIES REPRESENTED BY THIS CERTIFICATE ARE NOT TRANSFERABLE WITHOUT THE EXPRESS WRITTEN CONSENT OF LARAKO BIOPHARMACEUTICALS, INC. (THE "COMPANY") AND HAVE NOT BEEN REGISTERED UNDER THE SECURITIES ACT OF 1933 OR ANY APPLICABLE STATE SECURITIES LAWS, AND MAY NOT BE SOLD, OFFERED FOR SALE, PLEDGED OR HYPOTHECATED OR OTHERWISE TRANSFERRED IN THE ABSENCE OF A REGISTRATION STATEMENT IN EFFECT WITH RESPECT TO THE SECURITIES UNDER SUCH ACT OR AN EXEMPTION THEREFROM. ANY SUCH TRANSFER MAY ALSO BE SUBJECT TO APPLICABLE STATE SECURITIES LAWS.

KERYX BIOPHARMACEUTICALS, INC.

Warrant for the Purchase of Shares of
Common Stock

No. 7

70,313 Shares

FOR VALUE RECEIVED, KERYX BIOPHARMACEUTICALS, INC., a Delaware corporation (the "Company"), hereby certifies that CHILDREN'S MEDICAL CENTER CORPORATION or its registered assigns (the "Holder") is entitled to purchase from the Company, subject to the provisions of this Warrant, at any time commencing upon date (the "Vesting Date") of approval of the first Investigational New Drug Application by the United States Food and Drug Administration for the technologies granted to the Company by the Holder pursuant to a license agreement entered into by and among the Company and the Holder on November 18 1999, and prior to 5:00 P.M., New York City time, on the date that is ten (10) years after the Vesting Date (the "Termination Date"), Seventy Thousand Three Hundred and Thirteen (70,313) fully paid and non-assessable shares of the Common Stock, \$.001 par value, of the Company ("Common Stock") at an initial per share exercise price equal to \$.0067, or an initial aggregate exercise price of \$470.10. The number of shares of Common Stock to be received upon exercise of this Warrant and the price to be paid for each share of Common Stock are subject to possible adjustment from time to time as hereinafter set forth. The shares of Common Stock or other securities or property deliverable upon such exercise as adjusted from time to time is hereinafter sometimes referred to as the "Warrant Shares," the exercise price of a share of Common Stock in effect at any time and as adjusted from time to time is hereinafter sometimes referred to as the "Per Share Exercise Price" and the aggregate purchase price payable for the Warrant Shares hereunder is hereinafter sometimes referred to as the "Aggregate Exercise Price." The Aggregate Exercise Price is not subject to adjustment. The Per Share Exercise Price is subject to adjustment as hereinafter provided; in the event of any such adjustment, the number of Warrant Shares shall be adjusted by dividing the Aggregate Exercise Price by the Per Share Exercise Price in effect immediately after such adjustment. This Warrant is one of a duly authorized issue of Warrants constituting components of units being sold by the Company on the date hereof (collectively, the "Warrants").

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1. Exercise of Warrant.

(a) This Warrant is not transferable and may not be assigned or otherwise disposed of by the Holder until the Vesting Date.

(b) This Warrant may be exercised in whole or in part, at any time by the Holder commencing upon the Vesting Date and prior to the Termination Date:

(i) by presentation and surrender of this Warrant (with the subscription form at the end hereof duly executed) at the address set forth in Subsection 8(a) hereof, together with payment, by certified or official bank check payable to the order of the Company, of the Aggregate Exercise Price or the proportionate part thereof if exercised in part.

(ii) by the surrender of this Warrant (with the cashless exercise form at

the end hereof duly executed) (a "Cashless Exercise") at the address set forth in Section 8(a) hereof. Such presentation and surrender shall be deemed a waiver of the Holder's obligation to pay the Aggregate Exercise Price, or the proportionate part thereof if this Warrant is exercised in part. In the event of a Cashless Exercise, the Holder shall exchange its Warrant for that number of Warrant Shares subject to such Cashless Exercise multiplied by a fraction, the numerator of which shall be the difference between (A) the last sale price of the Common Stock on the trading day prior to such date or, in case no such reported sales take place on such day, the average of the last reported bid and asked prices of the Common Stock on such day, in either case on the principal national securities exchange on which the Common Stock is admitted to trading or listed, or if not listed or admitted to trading on any such exchange, the representative closing sale price of the Common Stock as reported by the National Association of Securities Dealers, Inc. Automated Quotations System ("NASDAQ"), or other similar organization if NASDAQ is no longer reporting such information, or, if the Common Stock is not reported on NASDAQ, the high per share sale price for the Common Stock in the over-the-counter market as reported by the National Quotation Bureau or similar organization, or if not so available, the fair market value of the Common Stock as determined in good faith by the Board of Directors (the "Current Market Price") and (B) the Per Share Exercise Price, and the denominator of which shall be the then Current Market Price. For purposes of any computation under this Section 1(a), the then Current Market Price shall be based on the trading day immediately prior to the Cashless Exercise.

(c) If this Warrant is exercised in part only, the Company shall, upon presentation of this Warrant upon such exercise, execute and deliver (with the certificate for the Warrant Shares purchased) a new Warrant evidencing the rights of the Holder hereof to purchase the balance of the Warrant Shares purchasable hereunder upon the same terms and conditions as herein set forth. Upon proper exercise of this Warrant, the Company promptly shall deliver certificates for the Warrant Shares to the Holder duly legended as authorized by the subscription form. No fractional shares shall be issued upon exercise of this Warrant. With respect to any fraction of a share called for upon exercise hereof, the Company shall pay to the Holder an amount in cash equal to such fraction multiplied by the Current Market Price of one (1) share of Common Stock.

2. Reservation of Warrant Shares; Fully Paid Shares; Taxes. The Company hereby undertakes until expiration of this Warrant to reserve for issuance or delivery upon exercise of this Warrant, such number of shares of the Common Stock as shall be required for issuance and/or delivery upon exercise of this Warrant in full, and agrees that all Warrant Shares so issued and/or delivered will be validly issued, fully paid and non-assessable, and further agrees to pay all taxes and charges that may be imposed upon such issuance and/or delivery.

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3. Protection Against Dilution.

(a) In case the Company shall hereafter (i) pay a dividend or make a distribution on its capital stock in shares of Common Stock, (ii) subdivide its outstanding shares of Common Stock into a greater number of shares, (iii) combine its outstanding shares of Common Stock into a smaller number of shares or (iv) issue by reclassification of its Common Stock any shares of capital stock of the Company, the Per Share Exercise Price shall be adjusted to be equal to a fraction, the numerator of which shall be the Aggregate Exercise Price and the denominator of which shall be the number of shares of Common Stock or other capital stock of the Company which the Holder would have owned immediately following such action had this Warrant been exercised immediately prior thereto. An adjustment made pursuant to this Subsection 3(a) shall become effective immediately after the record date in the case of a dividend or distribution and shall become effective immediately after the effective date in the case of a subdivision, combination or reclassification.

(b) In the event of any capital reorganization or reclassification, or any

consolidation or merger to which the Company is a party other than a merger or consolidation in which the Company is the continuing corporation, or in case of any sale or conveyance to another entity of the property of the Company as an entirety or substantially as an entirety, or in the case of any statutory exchange of securities with another corporation (including any exchange effected in connection with a merger of a third corporation into the Company), the Holder of this Warrant shall have the right thereafter to receive on the exercise of this Warrant the kind and amount of securities, cash or other property which the Holder would have owned or have been entitled to receive immediately after such reorganization, reclassification, consolidation, merger, statutory exchange, sale or conveyance had this Warrant been exercised immediately prior to the effective date of such reorganization, reclassification, consolidation, merger, statutory exchange, sale or conveyance and in any such case, if necessary, appropriate adjustment shall be made in the application of the provisions set forth in this Section 3 with respect to the rights and interests thereafter of the Holder of this Warrant to the end that the provisions set forth in this Section 3 shall thereafter correspondingly be made applicable, as nearly as may reasonably be, in relation to any shares of stock or other securities or property thereafter deliverable on the exercise of this Warrant. The above provisions of this Subsection 3(b) shall similarly apply to successive reorganizations, reclassifications, consolidations, mergers, statutory exchanges, sales or conveyances. The issuer of any shares of stock or other securities or property thereafter deliverable upon the exercise of this Warrant shall be responsible for all of the agreements and obligations of the Company hereunder. Notice of any such reorganization, reclassification, consolidation, merger, statutory exchange, sale or conveyance and of said provisions so proposed to be made, shall be mailed to the Holders of the Warrants not less than 30 days prior to such event. A sale of all or substantially all of the assets of the Company for a consideration consisting primarily of securities shall be deemed a consolidation or merger for the foregoing purposes.

(c) No adjustment in the Per Share Exercise Price shall be required unless such adjustment would require an increase or decrease of at least \$0.05 per share of Common Stock; provided, however, that any adjustments that by reason of this Subsection 3(c) are not required to be made shall be carried forward and taken into account in any subsequent adjustment; provided, further, however, that adjustments shall be required and made in accordance with the provisions of this Section 3 (other than this Subsection 3(c)) not later than such time as may be required in order to preserve the tax-free nature of a distribution to the Holder of this Warrant or Common Stock issuable upon the exercise hereof. All calculations under this Section 3 shall be made to the nearest cent or to the nearest 1/100th of a share, as the case may be. Anything in this Section 3 to the contrary notwithstanding, the Company shall be entitled to make such reductions in the Per Share Exercise Price, in addition to those required by this Section 3, as it in its discretion shall deem to be advisable in order that any stock dividend, subdivision of shares or distribution of rights to purchase stock or securities

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convertible or exchangeable for stock hereafter made by the Company to its stockholders shall not be taxable.

(d) Whenever the Per Share Exercise Price is adjusted as provided in this Section 3 and upon any modification of the rights of a Holder of Warrants in accordance with this Section 3, the Company shall promptly provide a certificate of its Chief Accounting Officer setting forth the Per Share Exercise Price and the number of Warrant Shares after such adjustment or the effect of such modification, a brief statement of the facts requiring such adjustment or modification and the manner of computing the same and cause copies of such certificate to be mailed to the Holders of the Warrants.

(e) If, as a result of an adjustment made pursuant to this Section 3, the Holder of any Warrant thereafter surrendered for exercise shall become entitled to receive shares of two or more classes of capital stock or shares of Common Stock and other capital stock of the Company, the Board of Directors (whose determination shall be conclusive and shall be described in a written notice to

the Holder of any Warrant promptly after such adjustment) shall determine the allocation of the adjusted Per Share Exercise Price between or among shares or such classes of capital stock or shares of Common Stock and other capital stock.

4. Limited Transferability. In addition to the limitation on transferability set forth in Section 1(a) hereof, this Warrant may not be sold, transferred, assigned or hypothecated by the Holder except in compliance with the provisions of the Act and the applicable state securities "blue sky" laws, and is so transferable only upon the books of the Company which it shall cause to be maintained for such purpose. The Company may treat the registered Holder of this Warrant as he or it appears on the Company's books at any time as the Holder for all purposes. The Company shall permit any Holder of a Warrant or his duly authorized attorney, upon written request during ordinary business hours, to inspect and copy or make extracts from its books showing the registered holders of Warrants. All Warrants issued upon the transfer or assignment of this Warrant will be dated the same date as this Warrant, and all rights of the holder thereof shall be identical to those of the Holder.

5. Loss, etc., of Warrant. Upon receipt of evidence satisfactory to the Company of the loss, theft, destruction or mutilation of this Warrant, and of indemnity reasonably satisfactory to the Company, if lost, stolen or destroyed, and upon surrender and cancellation of this Warrant, if mutilated, the Company shall execute and deliver to the Holder a new Warrant of like date, tenor and denomination.

6. Status of Holder. This Warrant does not confer upon the Holder any right to vote or to consent to or receive notice as a stockholder of the Company, as such, in respect of any matters whatsoever, or any other rights or liabilities as a stockholder, prior to the exercise hereof.

7. Notices. No notice or other communication under this Warrant shall be effective unless, but any notice or other communication shall be effective and shall be deemed to have been given, if the same is in writing and is mailed by first-class mail, postage prepaid, addressed to:

If to the Holder: If to the Holder: 300 Longwood Avenue, Boston, MA 02115 Attn. Donald P. Lombardi; or

If to the Company: If to the Company: 7 Hartom Street, POB 23706, Jerusalem, Israel 91236 Attn: General Counsel

8. Headings. The headings of this Warrant have been inserted as a matter of convenience and shall not affect the construction hereof.

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9. Applicable Law. This Warrant shall be governed by and construed in accordance with the laws of the Commonwealth of Massachusetts, without regard to principles of conflicts of law. Notwithstanding anything to the contrary contained herein, in no event may the effective rate of interest collected or received by the Holder exceed that which may be charged, collected or received by the Holder under applicable law. The parties agree to settle any disputes through binding arbitration in the city of Boston.

IN WITNESS WHEREOF, the Company has caused this Warrant to be signed by its Chief Executive Officer and attested by its Secretary this 3rd day of March 2003.

KERYX BIOPHARMACEUTICALS, INC.

By: /s/ Michael S. Weiss

Name: Michael S. Weiss

Title: Chief Executive Officer

ATTEST:

/s/ Bob Trachtenberg

Secretary

(NOT PERMITTED UNTIL INITIAL VESTING DATE)

SUBSCRIPTION

The undersigned, _____, pursuant to the provisions of the foregoing Warrant, hereby elects to exercise the within Warrant to the extent of purchasing _____ shares of Common Stock thereunder and hereby makes payment of \$ _____ by certified or official bank check in payment of the exercise price therefor.

The undersigned hereby represents and warrants to the Company that the undersigned is acquiring the shares of the Company's Common Stock pursuant to exercise of the within Warrant for investment purposes only. The undersigned hereby further acknowledges that the undersigned understands that such shares (a) have not been registered under the Securities Act of 1933, as amended, and are being issued to the undersigned by the Company in reliance upon the foregoing representation and warranty and (b) may not be resold except in accordance with the requirements of the Act, including Rule 144 thereunder, if applicable. The undersigned further consents to the placing of a legend on the certificates for the shares being purchased to the foregoing effect.

Dated: _____

Signature: _____

Address: _____

ASSIGNMENT

FOR VALUE RECEIVED _____ hereby sells, assigns and transfers unto _____ the foregoing Warrant and all rights evidenced thereby, and does irrevocably constitute and appoint _____, attorney, to transfer said Warrant on the books of Keryx Biopharmaceuticals, Inc.

Dated: _____

Signature: _____

Address: _____

CASHLESS EXERCISE

The undersigned _____, pursuant to the provisions of the foregoing Warrant, hereby elects to exchange its Warrant for _____ shares of Common Stock, par value \$.001 per share, of SignalSite, Inc. pursuant to the Cashless Exercise provisions of the Warrant.

Dated: _____

Signature: _____

Address: _____

PARTIAL ASSIGNMENT

FOR VALUE RECEIVED _____ hereby assigns and transfers unto _____ the right to purchase _____ shares of the Common Stock, no par value per share, of SignalSite, Inc. covered by the foregoing Warrant, and a proportionate part of said Warrant and the rights evidenced thereby, and

does irrevocably constitute and appoint _____, attorney, to transfer that part of said Warrant on the books of Keryx Biopharmaceuticals, Inc.

Dated: _____

Signature: _____

Address: _____

THE SECURITIES REPRESENTED BY THIS CERTIFICATE ARE NOT TRANSFERABLE WITHOUT THE EXPRESS WRITTEN CONSENT OF LARAKO BIOPHARMACEUTICALS, INC. (THE "COMPANY") AND HAVE NOT BEEN REGISTERED UNDER THE SECURITIES ACT OF 1933 OR ANY APPLICABLE STATE SECURITIES LAWS, AND MAY NOT BE SOLD, OFFERED FOR SALE, PLEDGED OR HYPOTHECATED OR OTHERWISE TRANSFERRED IN THE ABSENCE OF A REGISTRATION STATEMENT IN EFFECT WITH RESPECT TO THE SECURITIES UNDER SUCH ACT OR AN EXEMPTION THEREFROM. ANY SUCH TRANSFER MAY ALSO BE SUBJECT TO APPLICABLE STATE SECURITIES LAWS.

KERYX BIOPHARMACEUTICALS, INC.

Warrant for the Purchase of Shares of
Common Stock

No. 8

70,313 Shares

FOR VALUE RECEIVED, KERYX BIOPHARMACEUTICALS, INC., a Delaware corporation (the "Company"), hereby certifies that CHILDREN'S MEDICAL CENTER CORPORATION or its registered assigns (the "Holder") is entitled to purchase from the Company, subject to the provisions of this Warrant, at any time commencing upon the date (the "Vesting Date") of approval of the first New Drug Application by the United States Food and Drug Administration for the technologies granted to the Company by the Holder pursuant to a license agreement entered into by and among the Company and the Holder on November 18 1999, and prior to 5:00 P.M., New York City time, on the date that is ten (10) years after the Vesting Date (the "Termination Date"), Seventy Thousand Three Hundred and Thirteen (70,313) fully paid and non-assessable shares of the Common Stock, \$.001 par value, of the Company ("Common Stock") at an initial per share exercise price equal to \$.0067, or an initial aggregate exercise price of \$470.10. The number of shares of Common Stock to be received upon exercise of this Warrant and the price to be paid for each share of Common Stock are subject to possible adjustment from time to time as hereinafter set forth. The shares of Common Stock or other securities or property deliverable upon such exercise as adjusted from time to time is hereinafter sometimes referred to as the "Warrant Shares," the exercise price of a share of Common Stock in effect at any time and as adjusted from time to time is hereinafter sometimes referred to as the "Per Share Exercise Price" and the aggregate purchase price payable for the Warrant Shares hereunder is hereinafter sometimes referred to as the "Aggregate Exercise Price." The Aggregate Exercise Price is not subject to adjustment. The Per Share Exercise Price is subject to adjustment as hereinafter provided; in the event of any such adjustment, the number of Warrant Shares shall be adjusted by dividing the Aggregate Exercise Price by the Per Share Exercise Price in effect immediately after such adjustment. This Warrant is one of a duly authorized issue of Warrants constituting components of units being sold by the Company on the date hereof (collectively, the "Warrants").

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1. Exercise of Warrant.

(a) This Warrant is not transferable and may not be assigned or otherwise disposed of by the Holder until the Vesting Date.

(b) This Warrant may be exercised in whole or in part, at any time by the Holder commencing upon the Vesting Date and prior to the Termination Date:

(i) by presentation and surrender of this Warrant (with the subscription form at the end hereof duly executed) at the address set forth in Subsection 8(a) hereof, together with payment, by certified or official bank check payable to the order of the Company, of the Aggregate Exercise Price or the proportionate part thereof if exercised in part.

(ii) by the surrender of this Warrant (with the cashless exercise form at

the end hereof duly executed) (a "Cashless Exercise") at the address set forth in Section 8(a) hereof. Such presentation and surrender shall be deemed a waiver of the Holder's obligation to pay the Aggregate Exercise Price, or the proportionate part thereof if this Warrant is exercised in part. In the event of a Cashless Exercise, the Holder shall exchange its Warrant for that number of Warrant Shares subject to such Cashless Exercise multiplied by a fraction, the numerator of which shall be the difference between (A) the last sale price of the Common Stock on the trading day prior to such date or, in case no such reported sales take place on such day, the average of the last reported bid and asked prices of the Common Stock on such day, in either case on the principal national securities exchange on which the Common Stock is admitted to trading or listed, or if not listed or admitted to trading on any such exchange, the representative closing sale price of the Common Stock as reported by the National Association of Securities Dealers, Inc. Automated Quotations System ("NASDAQ"), or other similar organization if NASDAQ is no longer reporting such information, or, if the Common Stock is not reported on NASDAQ, the high per share sale price for the Common Stock in the over-the-counter market as reported by the National Quotation Bureau or similar organization, or if not so available, the fair market value of the Common Stock as determined in good faith by the Board of Directors (the "Current Market Price") and (B) the Per Share Exercise Price, and the denominator of which shall be the then Current Market Price. For purposes of any computation under this Section 1(a), the then Current Market Price shall be based on the trading day immediately prior to the Cashless Exercise.

(c) If this Warrant is exercised in part only, the Company shall, upon presentation of this Warrant upon such exercise, execute and deliver (with the certificate for the Warrant Shares purchased) a new Warrant evidencing the rights of the Holder hereof to purchase the balance of the Warrant Shares purchasable hereunder upon the same terms and conditions as herein set forth. Upon proper exercise of this Warrant, the Company promptly shall deliver certificates for the Warrant Shares to the Holder duly legended as authorized by the subscription form. No fractional shares shall be issued upon exercise of this Warrant. With respect to any fraction of a share called for upon exercise hereof, the Company shall pay to the Holder an amount in cash equal to such fraction multiplied by the Current Market Price of one (1) share of Common Stock.

2. Reservation of Warrant Shares; Fully Paid Shares; Taxes. The Company hereby undertakes until expiration of this Warrant to reserve for issuance or delivery upon exercise of this Warrant, such number of shares of the Common Stock as shall be required for issuance and/or delivery upon exercise of this Warrant in full, and agrees that all Warrant Shares so issued and/or delivered will be validly issued, fully paid and non-assessable, and further agrees to pay all taxes and charges that may be imposed upon such issuance and/or delivery.

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3. Protection Against Dilution.

(a) In case the Company shall hereafter (i) pay a dividend or make a distribution on its capital stock in shares of Common Stock, (ii) subdivide its outstanding shares of Common Stock into a greater number of shares, (iii) combine its outstanding shares of Common Stock into a smaller number of shares or (iv) issue by reclassification of its Common Stock any shares of capital stock of the Company, the Per Share Exercise Price shall be adjusted to be equal to a fraction, the numerator of which shall be the Aggregate Exercise Price and the denominator of which shall be the number of shares of Common Stock or other capital stock of the Company which the Holder would have owned immediately following such action had this Warrant been exercised immediately prior thereto. An adjustment made pursuant to this Subsection 3(a) shall become effective immediately after the record date in the case of a dividend or distribution and shall become effective immediately after the effective date in the case of a subdivision, combination or reclassification.

(b) In the event of any capital reorganization or reclassification, or any

consolidation or merger to which the Company is a party other than a merger or consolidation in which the Company is the continuing corporation, or in case of any sale or conveyance to another entity of the property of the Company as an entirety or substantially as an entirety, or in the case of any statutory exchange of securities with another corporation (including any exchange effected in connection with a merger of a third corporation into the Company), the Holder of this Warrant shall have the right thereafter to receive on the exercise of this Warrant the kind and amount of securities, cash or other property which the Holder would have owned or have been entitled to receive immediately after such reorganization, reclassification, consolidation, merger, statutory exchange, sale or conveyance had this Warrant been exercised immediately prior to the effective date of such reorganization, reclassification, consolidation, merger, statutory exchange, sale or conveyance and in any such case, if necessary, appropriate adjustment shall be made in the application of the provisions set forth in this Section 3 with respect to the rights and interests thereafter of the Holder of this Warrant to the end that the provisions set forth in this Section 3 shall thereafter correspondingly be made applicable, as nearly as may reasonably be, in relation to any shares of stock or other securities or property thereafter deliverable on the exercise of this Warrant. The above provisions of this Subsection 3(b) shall similarly apply to successive reorganizations, reclassifications, consolidations, mergers, statutory exchanges, sales or conveyances. The issuer of any shares of stock or other securities or property thereafter deliverable upon the exercise of this Warrant shall be responsible for all of the agreements and obligations of the Company hereunder. Notice of any such reorganization, reclassification, consolidation, merger, statutory exchange, sale or conveyance and of said provisions so proposed to be made, shall be mailed to the Holders of the Warrants not less than 30 days prior to such event. A sale of all or substantially all of the assets of the Company for a consideration consisting primarily of securities shall be deemed a consolidation or merger for the foregoing purposes.

(c) No adjustment in the Per Share Exercise Price shall be required unless such adjustment would require an increase or decrease of at least \$0.05 per share of Common Stock; provided, however, that any adjustments that by reason of this Subsection 3(c) are not required to be made shall be carried forward and taken into account in any subsequent adjustment; provided, further, however, that adjustments shall be required and made in accordance with the provisions of this Section 3 (other than this Subsection 3(c)) not later than such time as may be required in order to preserve the tax-free nature of a distribution to the Holder of this Warrant or Common Stock issuable upon the exercise hereof. All calculations under this Section 3 shall be made to the nearest cent or to the nearest 1/100th of a share, as the case may be. Anything in this Section 3 to the contrary notwithstanding, the Company shall be entitled to make such reductions in the Per Share Exercise Price, in addition to those required by this Section 3, as it in its discretion shall deem to be advisable in order that any stock dividend, subdivision of shares or distribution of rights to purchase stock or securities

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convertible or exchangeable for stock hereafter made by the Company to its stockholders shall not be taxable.

(d) Whenever the Per Share Exercise Price is adjusted as provided in this Section 3 and upon any modification of the rights of a Holder of Warrants in accordance with this Section 3, the Company shall promptly provide a certificate of its Chief Accounting Officer setting forth the Per Share Exercise Price and the number of Warrant Shares after such adjustment or the effect of such modification, a brief statement of the facts requiring such adjustment or modification and the manner of computing the same and cause copies of such certificate to be mailed to the Holders of the Warrants.

(e) If, as a result of an adjustment made pursuant to this Section 3, the Holder of any Warrant thereafter surrendered for exercise shall become entitled to receive shares of two or more classes of capital stock or shares of Common Stock and other capital stock of the Company, the Board of Directors (whose

determination shall be conclusive and shall be described in a written notice to the Holder of any Warrant promptly after such adjustment) shall determine the allocation of the adjusted Per Share Exercise Price between or among shares or such classes of capital stock or shares of Common Stock and other capital stock.

4. Limited Transferability. In addition to the limitation on transferability set forth in Section 1(a) hereof, this Warrant may not be sold, transferred, assigned or hypothecated by the Holder except in compliance with the provisions of the Act and the applicable state securities "blue sky" laws, and is so transferable only upon the books of the Company which it shall cause to be maintained for such purpose. The Company may treat the registered Holder of this Warrant as he or it appears on the Company's books at any time as the Holder for all purposes. The Company shall permit any Holder of a Warrant or his duly authorized attorney, upon written request during ordinary business hours, to inspect and copy or make extracts from its books showing the registered holders of Warrants. All Warrants issued upon the transfer or assignment of this Warrant will be dated the same date as this Warrant, and all rights of the holder thereof shall be identical to those of the Holder.

5. Loss, etc., of Warrant. Upon receipt of evidence satisfactory to the Company of the loss, theft, destruction or mutilation of this Warrant, and of indemnity reasonably satisfactory to the Company, if lost, stolen or destroyed, and upon surrender and cancellation of this Warrant, if mutilated, the Company shall execute and deliver to the Holder a new Warrant of like date, tenor and denomination.

6. Status of Holder. This Warrant does not confer upon the Holder any right to vote or to consent to or receive notice as a stockholder of the Company, as such, in respect of any matters whatsoever, or any other rights or liabilities as a stockholder, prior to the exercise hereof.

7. Notices. No notice or other communication under this Warrant shall be effective unless, but any notice or other communication shall be effective and shall be deemed to have been given, if the same is in writing and is mailed by first-class mail, postage prepaid, addressed to:

If to the Holder: If to the Holder: 300 Longwood Avenue, Boston, MA 02115 Attn. Donald P. Lombardi; or

If to the Company: If to the Company: 7 Hartom Street, POB 23706, Jerusalem, Israel 91236 Attn: General Counsel

8. Headings. The headings of this Warrant have been inserted as a matter of convenience and shall not affect the construction hereof.

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9. Applicable Law. This Warrant shall be governed by and construed in accordance with the laws of the Commonwealth of Massachusetts, without regard to principles of conflicts of law. Notwithstanding anything to the contrary contained herein, in no event may the effective rate of interest collected or received by the Holder exceed that which may be charged, collected or received by the Holder under applicable law. The parties agree to settle any disputes through binding arbitration in the city of Boston.

IN WITNESS WHEREOF, the Company has caused this Warrant to be signed by its Chief Executive Officer and attested by its Secretary this 12th day of December 2001.

KERYX BIOPHARMACEUTICALS, INC.

By: /s/ Benjamin Corn

Name: Benjamin Corn, M.D.

Title: Chief Executive Officer and President

ATTEST:

/s/ Bob Trachtenberg

Secretary

(NOT PERMITTED UNTIL INITIAL VESTING DATE)

SUBSCRIPTION

The undersigned, _____, pursuant to the provisions of the foregoing Warrant, hereby elects to exercise the within Warrant to the extent of purchasing _____ shares of Common Stock thereunder and hereby makes payment of \$_____ by certified or official bank check in payment of the exercise price therefor.

The undersigned hereby represents and warrants to the Company that the undersigned is acquiring the shares of the Company's Common Stock pursuant to exercise of the within Warrant for investment purposes only. The undersigned hereby further acknowledges that the undersigned understands that such shares (a) have not been registered under the Securities Act of 1933, as amended, and are being issued to the undersigned by the Company in reliance upon the foregoing representation and warranty and (b) may not be resold except in accordance with the requirements of the Act, including Rule 144 thereunder, if applicable. The undersigned further consents to the placing of a legend on the certificates for the shares being purchased to the foregoing effect.

Dated: _____ Signature: _____
Address: _____

ASSIGNMENT

FOR VALUE RECEIVED _____ hereby sells, assigns and transfers unto _____ the foregoing Warrant and all rights evidenced thereby, and does irrevocably constitute and appoint _____, attorney, to transfer said Warrant on the books of Keryx Biopharmaceuticals, Inc.

Dated: _____ Signature: _____
Address: _____

CASHLESS EXERCISE

The undersigned _____, pursuant to the provisions of the foregoing Warrant, hereby elects to exchange its Warrant for _____ shares of Common Stock, par value \$.001 per share, of SignalSite, Inc. pursuant to the Cashless Exercise provisions of the Warrant.

Dated: _____ Signature: _____
Address: _____

PARTIAL ASSIGNMENT

FOR VALUE RECEIVED _____ hereby assigns and transfers unto _____ the right to purchase _____ shares of the Common Stock, no par value per share, of SignalSite, Inc. covered by the foregoing Warrant,

and a proportionate part of said Warrant and the rights evidenced thereby, and does irrevocably constitute and appoint _____, attorney, to transfer that part of said Warrant on the books of Keryx Biopharmaceuticals, Inc.

Dated: _____

Signature: _____

Address: _____

THE SECURITIES REPRESENTED BY THIS CERTIFICATE ARE NOT TRANSFERABLE WITHOUT THE EXPRESS WRITTEN CONSENT OF LARAKO BIOPHARMACEUTICALS, INC. (THE "COMPANY") AND HAVE NOT BEEN REGISTERED UNDER THE SECURITIES ACT OF 1933 OR ANY APPLICABLE STATE SECURITIES LAWS, AND MAY NOT BE SOLD, OFFERED FOR SALE, PLEDGED OR HYPOTHECATED OR OTHERWISE TRANSFERRED IN THE ABSENCE OF A REGISTRATION STATEMENT IN EFFECT WITH RESPECT TO THE SECURITIES UNDER SUCH ACT OR AN EXEMPTION THEREFROM. ANY SUCH TRANSFER MAY ALSO BE SUBJECT TO APPLICABLE STATE SECURITIES LAWS.

KERYX BIOPHARMACEUTICALS, INC.

Warrant for the Purchase of Shares of
Common Stock

No. 9

23,437 Shares

FOR VALUE RECEIVED, KERYX BIOPHARMACEUTICALS, INC., a Delaware corporation (the "Company"), hereby certifies that SHMUEL BEN SASSON or his registered assigns (the "Holder") is entitled to purchase from the Company, subject to the provisions of this Warrant, at any time commencing upon the date (the "Vesting Date") of approval of the first New Drug Application by the United States Food and Drug Administration for the technologies granted to the Company by the Holder pursuant to a license agreement entered into by and among the Company and the Children's Medical Center Corporation on November 18 1999, and prior to 5:00 P.M., New York City time, on the date that is ten (10) years after the Vesting Date (the "Termination Date"), Twenty Three Thousand Four Hundred and Thirty Seven (23,437) fully paid and non-assessable shares of the Common Stock, \$.001 par value, of the Company ("Common Stock") at an initial per share exercise price equal to \$.0067, or an initial aggregate exercise price of \$157.03. The number of shares of Common Stock to be received upon exercise of this Warrant and the price to be paid for each share of Common Stock are subject to possible adjustment from time to time as hereinafter set forth. The shares of Common Stock or other securities or property deliverable upon such exercise as adjusted from time to time is hereinafter sometimes referred to as the "Warrant Shares," the exercise price of a share of Common Stock in effect at any time and as adjusted from time to time is hereinafter sometimes referred to as the "Per Share Exercise Price" and the aggregate purchase price payable for the Warrant Shares hereunder is hereinafter sometimes referred to as the "Aggregate Exercise Price." The Aggregate Exercise Price is not subject to adjustment. The Per Share Exercise Price is subject to adjustment as hereinafter provided; in the event of any such adjustment, the number of Warrant Shares shall be adjusted by dividing the Aggregate Exercise Price by the Per Share Exercise Price in effect immediately after such adjustment. This Warrant is one of a duly authorized issue of Warrants constituting components of units being sold by the Company on the date hereof (collectively, the "Warrants").

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1. Exercise of Warrant.

(a) This Warrant is not transferable and may not be assigned or otherwise disposed of by the Holder until the Vesting Date.

(b) This Warrant may be exercised in whole or in part, at any time by the Holder commencing upon the Vesting Date and prior to the Termination Date:

(i) by presentation and surrender of this Warrant (with the subscription form at the end hereof duly executed) at the address set forth in Subsection 8(a) hereof, together with payment, by certified or official bank check payable to the order of the Company, of the Aggregate Exercise Price or the proportionate part thereof if exercised in part.

(ii) by the surrender of this Warrant (with the cashless exercise form at

the end hereof duly executed) (a "Cashless Exercise") at the address set forth in Section 8(a) hereof. Such presentation and surrender shall be deemed a waiver of the Holder's obligation to pay the Aggregate Exercise Price, or the proportionate part thereof if this Warrant is exercised in part. In the event of a Cashless Exercise, the Holder shall exchange its Warrant for that number of Warrant Shares subject to such Cashless Exercise multiplied by a fraction, the numerator of which shall be the difference between (A) the last sale price of the Common Stock on the trading day prior to such date or, in case no such reported sales take place on such day, the average of the last reported bid and asked prices of the Common Stock on such day, in either case on the principal national securities exchange on which the Common Stock is admitted to trading or listed, or if not listed or admitted to trading on any such exchange, the representative closing sale price of the Common Stock as reported by the National Association of Securities Dealers, Inc. Automated Quotations System ("NASDAQ"), or other similar organization if NASDAQ is no longer reporting such information, or, if the Common Stock is not reported on NASDAQ, the high per share sale price for the Common Stock in the over-the-counter market as reported by the National Quotation Bureau or similar organization, or if not so available, the fair market value of the Common Stock as determined in good faith by the Board of Directors (the "Current Market Price") and (B) the Per Share Exercise Price, and the denominator of which shall be the then Current Market Price. For purposes of any computation under this Section 1(a), the then Current Market Price shall be based on the trading day immediately prior to the Cashless Exercise.

(c) If this Warrant is exercised in part only, the Company shall, upon presentation of this Warrant upon such exercise, execute and deliver (with the certificate for the Warrant Shares purchased) a new Warrant evidencing the rights of the Holder hereof to purchase the balance of the Warrant Shares purchasable hereunder upon the same terms and conditions as herein set forth. Upon proper exercise of this Warrant, the Company promptly shall deliver certificates for the Warrant Shares to the Holder duly legended as authorized by the subscription form. No fractional shares shall be issued upon exercise of this Warrant. With respect to any fraction of a share called for upon exercise hereof, the Company shall pay to the Holder an amount in cash equal to such fraction multiplied by the Current Market Price of one (1) share of Common Stock.

2. Reservation of Warrant Shares; Fully Paid Shares; Taxes. The Company hereby undertakes until expiration of this Warrant to reserve for issuance or delivery upon exercise of this Warrant, such number of shares of the Common Stock as shall be required for issuance and/or delivery upon exercise of this Warrant in full, and agrees that all Warrant Shares so issued and/or delivered will be validly issued, fully paid and non-assessable, and further agrees to pay all taxes and charges that may be imposed upon such issuance and/or delivery.

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3. Protection Against Dilution.

(a) In case the Company shall hereafter (i) pay a dividend or make a distribution on its capital stock in shares of Common Stock, (ii) subdivide its outstanding shares of Common Stock into a greater number of shares, (iii) combine its outstanding shares of Common Stock into a smaller number of shares or (iv) issue by reclassification of its Common Stock any shares of capital stock of the Company, the Per Share Exercise Price shall be adjusted to be equal to a fraction, the numerator of which shall be the Aggregate Exercise Price and the denominator of which shall be the number of shares of Common Stock or other capital stock of the Company which the Holder would have owned immediately following such action had this Warrant been exercised immediately prior thereto. An adjustment made pursuant to this Subsection 3(a) shall become effective immediately after the record date in the case of a dividend or distribution and shall become effective immediately after the effective date in the case of a subdivision, combination or reclassification.

(b) In the event of any capital reorganization or reclassification, or any

consolidation or merger to which the Company is a party other than a merger or consolidation in which the Company is the continuing corporation, or in case of any sale or conveyance to another entity of the property of the Company as an entirety or substantially as an entirety, or in the case of any statutory exchange of securities with another corporation (including any exchange effected in connection with a merger of a third corporation into the Company), the Holder of this Warrant shall have the right thereafter to receive on the exercise of this Warrant the kind and amount of securities, cash or other property which the Holder would have owned or have been entitled to receive immediately after such reorganization, reclassification, consolidation, merger, statutory exchange, sale or conveyance had this Warrant been exercised immediately prior to the effective date of such reorganization, reclassification, consolidation, merger, statutory exchange, sale or conveyance and in any such case, if necessary, appropriate adjustment shall be made in the application of the provisions set forth in this Section 3 with respect to the rights and interests thereafter of the Holder of this Warrant to the end that the provisions set forth in this Section 3 shall thereafter correspondingly be made applicable, as nearly as may reasonably be, in relation to any shares of stock or other securities or property thereafter deliverable on the exercise of this Warrant. The above provisions of this Subsection 3(b) shall similarly apply to successive reorganizations, reclassifications, consolidations, mergers, statutory exchanges, sales or conveyances. The issuer of any shares of stock or other securities or property thereafter deliverable upon the exercise of this Warrant shall be responsible for all of the agreements and obligations of the Company hereunder. Notice of any such reorganization, reclassification, consolidation, merger, statutory exchange, sale or conveyance and of said provisions so proposed to be made, shall be mailed to the Holders of the Warrants not less than 30 days prior to such event. A sale of all or substantially all of the assets of the Company for a consideration consisting primarily of securities shall be deemed a consolidation or merger for the foregoing purposes.

(c) No adjustment in the Per Share Exercise Price shall be required unless such adjustment would require an increase or decrease of at least \$0.05 per share of Common Stock; provided, however, that any adjustments that by reason of this Subsection 3(c) are not required to be made shall be carried forward and taken into account in any subsequent adjustment; provided, further, however, that adjustments shall be required and made in accordance with the provisions of this Section 3 (other than this Subsection 3(c)) not later than such time as may be required in order to preserve the tax-free nature of a distribution to the Holder of this Warrant or Common Stock issuable upon the exercise hereof. All calculations under this Section 3 shall be made to the nearest cent or to the nearest 1/100th of a share, as the case may be. Anything in this Section 3 to the contrary notwithstanding, the Company shall be entitled to make such reductions in the Per Share Exercise Price, in addition to those required by this Section 3, as it in its discretion shall deem to be advisable in order that any stock dividend, subdivision of shares or distribution of rights to purchase stock or securities

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convertible or exchangeable for stock hereafter made by the Company to its stockholders shall not be taxable.

(d) Whenever the Per Share Exercise Price is adjusted as provided in this Section 3 and upon any modification of the rights of a Holder of Warrants in accordance with this Section 3, the Company shall promptly provide a certificate of its Chief Accounting Officer setting forth the Per Share Exercise Price and the number of Warrant Shares after such adjustment or the effect of such modification, a brief statement of the facts requiring such adjustment or modification and the manner of computing the same and cause copies of such certificate to be mailed to the Holders of the Warrants.

(e) If, as a result of an adjustment made pursuant to this Section 3, the Holder of any Warrant thereafter surrendered for exercise shall become entitled to receive shares of two or more classes of capital stock or shares of Common Stock and other capital stock of the Company, the Board of Directors (whose

determination shall be conclusive and shall be described in a written notice to the Holder of any Warrant promptly after such adjustment) shall determine the allocation of the adjusted Per Share Exercise Price between or among shares or such classes of capital stock or shares of Common Stock and other capital stock.

4. Limited Transferability. In addition to the limitation on transferability set forth in Section 1(a) hereof, this Warrant may not be sold, transferred, assigned or hypothecated by the Holder except in compliance with the provisions of the Act and the applicable state securities "blue sky" laws, and is so transferable only upon the books of the Company which it shall cause to be maintained for such purpose. The Company may treat the registered Holder of this Warrant as he or it appears on the Company's books at any time as the Holder for all purposes. The Company shall permit any Holder of a Warrant or his duly authorized attorney, upon written request during ordinary business hours, to inspect and copy or make extracts from its books showing the registered holders of Warrants. All Warrants issued upon the transfer or assignment of this Warrant will be dated the same date as this Warrant, and all rights of the holder thereof shall be identical to those of the Holder.

5. Loss, etc., of Warrant. Upon receipt of evidence satisfactory to the Company of the loss, theft, destruction or mutilation of this Warrant, and of indemnity reasonably satisfactory to the Company, if lost, stolen or destroyed, and upon surrender and cancellation of this Warrant, if mutilated, the Company shall execute and deliver to the Holder a new Warrant of like date, tenor and denomination.

6. Status of Holder. This Warrant does not confer upon the Holder any right to vote or to consent to or receive notice as a stockholder of the Company, as such, in respect of any matters whatsoever, or any other rights or liabilities as a stockholder, prior to the exercise hereof.

7. Notices. No notice or other communication under this Warrant shall be effective unless, but any notice or other communication shall be effective and shall be deemed to have been given, if the same is in writing and is mailed by first-class mail, postage prepaid, addressed to:

If to the Holder: If to the Holder: 300 Longwood Avenue, Boston, MA 02115 Attn. Donald P. Lombardi; or

If to the Company: If to the Company: 7 Hartom Street, POB 23706, Jerusalem, Israel 91236 Attn: General Counsel

8. Headings. The headings of this Warrant have been inserted as a matter of convenience and shall not affect the construction hereof.

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9. Applicable Law. This Warrant shall be governed by and construed in accordance with the laws of the Commonwealth of Massachusetts, without regard to principles of conflicts of law. Notwithstanding anything to the contrary contained herein, in no event may the effective rate of interest collected or received by the Holder exceed that which may be charged, collected or received by the Holder under applicable law. The parties agree to settle any disputes through binding arbitration in the city of Boston.

IN WITNESS WHEREOF, the Company has caused this Warrant to be signed by its Chief Executive Officer and attested by its Secretary this 3rd day of March 2003.

KERYX BIOPHARMACEUTICALS, INC.

By: /s/ Michael S. Weiss

Name: Michael S. Weiss

Title: Chief Executive Officer

ATTEST:

/s/ Bob Trachtenberg

Secretary

(NOT PERMITTED UNTIL INITIAL VESTING DATE)

SUBSCRIPTION

The undersigned, _____, pursuant to the provisions of the foregoing Warrant, hereby elects to exercise the within Warrant to the extent of purchasing _____ shares of Common Stock thereunder and hereby makes payment of \$_____ by certified or official bank check in payment of the exercise price therefor.

The undersigned hereby represents and warrants to the Company that the undersigned is acquiring the shares of the Company's Common Stock pursuant to exercise of the within Warrant for investment purposes only. The undersigned hereby further acknowledges that the undersigned understands that such shares (a) have not been registered under the Securities Act of 1933, as amended, and are being issued to the undersigned by the Company in reliance upon the foregoing representation and warranty and (b) may not be resold except in accordance with the requirements of the Act, including Rule 144 thereunder, if applicable. The undersigned further consents to the placing of a legend on the certificates for the shares being purchased to the foregoing effect.

Dated: _____ Signature: _____

Address: _____

ASSIGNMENT

FOR VALUE RECEIVED _____ hereby sells, assigns and transfers unto _____ the foregoing Warrant and all rights evidenced thereby, and does irrevocably constitute and appoint _____, attorney, to transfer said Warrant on the books of Keryx Biopharmaceuticals, Inc.

Dated: _____ Signature: _____

Address: _____

CASHLESS EXERCISE

The undersigned _____, pursuant to the provisions of the foregoing Warrant, hereby elects to exchange its Warrant for _____ shares of Common Stock, par value \$.001 per share, of SignalSite, Inc. pursuant to the Cashless Exercise provisions of the Warrant.

Dated: _____ Signature: _____

Address: _____

PARTIAL ASSIGNMENT

FOR VALUE RECEIVED _____ hereby assigns and transfers unto _____ the right to purchase _____ shares of the Common Stock, no par value per share, of SignalSite, Inc. covered by the foregoing Warrant, and a proportionate part of said Warrant and the rights evidenced thereby, and

does irrevocably constitute and appoint _____, attorney, to transfer that part of said Warrant on the books of Keryx Biopharmaceuticals, Inc.

Dated: _____

Signature: _____

Address: _____

THE SECURITIES REPRESENTED BY THIS CERTIFICATE ARE NOT TRANSFERABLE WITHOUT THE EXPRESS WRITTEN CONSENT OF LARAKO BIOPHARMACEUTICALS, INC. (THE "COMPANY") AND HAVE NOT BEEN REGISTERED UNDER THE SECURITIES ACT OF 1933 OR ANY APPLICABLE STATE SECURITIES LAWS, AND MAY NOT BE SOLD, OFFERED FOR SALE, PLEDGED OR HYPOTHECATED OR OTHERWISE TRANSFERRED IN THE ABSENCE OF A REGISTRATION STATEMENT IN EFFECT WITH RESPECT TO THE SECURITIES UNDER SUCH ACT OR AN EXEMPTION THEREFROM. ANY SUCH TRANSFER MAY ALSO BE SUBJECT TO APPLICABLE STATE SECURITIES LAWS.

KERYX BIOPHARMACEUTICALS, INC.

Warrant for the Purchase of Shares of
Common Stock

No. 10

23,437 Shares

FOR VALUE RECEIVED, KERYX BIOPHARMACEUTICALS, INC., a Delaware corporation (the "Company"), hereby certifies that SHMUEL BEN SASSON or his registered assigns (the "Holder") is entitled to purchase from the Company, subject to the provisions of this Warrant, at any time commencing upon date (the "Vesting Date") of approval of the first Investigational New Drug Application by the United States Food and Drug Administration for the technologies granted to the Company by the Holder pursuant to a license agreement entered into by and among the Company and the Children's Medical Center Corporation on November 18 1999, and prior to 5:00 P.M., New York City time, on the date that is ten (10) years after the Vesting Date (the "Termination Date"), Twenty Three Thousand Four Hundred and Thirty Seven (23,437) fully paid and non-assessable shares of the Common Stock, \$.001 par value, of the Company ("Common Stock") at an initial per share exercise price equal to \$.0067, or an initial aggregate exercise price of \$157.03. The number of shares of Common Stock to be received upon exercise of this Warrant and the price to be paid for each share of Common Stock are subject to possible adjustment from time to time as hereinafter set forth. The shares of Common Stock or other securities or property deliverable upon such exercise as adjusted from time to time is hereinafter sometimes referred to as the "Warrant Shares," the exercise price of a share of Common Stock in effect at any time and as adjusted from time to time is hereinafter sometimes referred to as the "Per Share Exercise Price" and the aggregate purchase price payable for the Warrant Shares hereunder is hereinafter sometimes referred to as the "Aggregate Exercise Price." The Aggregate Exercise Price is not subject to adjustment. The Per Share Exercise Price is subject to adjustment as hereinafter provided; in the event of any such adjustment, the number of Warrant Shares shall be adjusted by dividing the Aggregate Exercise Price by the Per Share Exercise Price in effect immediately after such adjustment. This Warrant is one of a duly authorized issue of Warrants constituting components of units being sold by the Company on the date hereof (collectively, the "Warrants").

1

1. Exercise of Warrant.

(a) This Warrant is not transferable and may not be assigned or otherwise disposed of by the Holder until the Vesting Date.

(b) This Warrant may be exercised in whole or in part, at any time by the Holder commencing upon the Vesting Date and prior to the Termination Date:

(i) by presentation and surrender of this Warrant (with the subscription form at the end hereof duly executed) at the address set forth in Subsection 8(a) hereof, together with payment, by certified or official bank check payable to the order of the Company, of the Aggregate Exercise Price or the proportionate part thereof if exercised in part.

(ii) by the surrender of this Warrant (with the cashless exercise form at the end hereof duly executed) (a "Cashless Exercise") at the address set forth

in Section 8(a) hereof. Such presentation and surrender shall be deemed a waiver of the Holder's obligation to pay the Aggregate Exercise Price, or the proportionate part thereof if this Warrant is exercised in part. In the event of a Cashless Exercise, the Holder shall exchange its Warrant for that number of Warrant Shares subject to such Cashless Exercise multiplied by a fraction, the numerator of which shall be the difference between (A) the last sale price of the Common Stock on the trading day prior to such date or, in case no such reported sales take place on such day, the average of the last reported bid and asked prices of the Common Stock on such day, in either case on the principal national securities exchange on which the Common Stock is admitted to trading or listed, or if not listed or admitted to trading on any such exchange, the representative closing sale price of the Common Stock as reported by the National Association of Securities Dealers, Inc. Automated Quotations System ("NASDAQ"), or other similar organization if NASDAQ is no longer reporting such information, or, if the Common Stock is not reported on NASDAQ, the high per share sale price for the Common Stock in the over-the-counter market as reported by the National Quotation Bureau or similar organization, or if not so available, the fair market value of the Common Stock as determined in good faith by the Board of Directors (the "Current Market Price") and (B) the Per Share Exercise Price, and the denominator of which shall be the then Current Market Price. For purposes of any computation under this Section 1(a), the then Current Market Price shall be based on the trading day immediately prior to the Cashless Exercise.

(c) If this Warrant is exercised in part only, the Company shall, upon presentation of this Warrant upon such exercise, execute and deliver (with the certificate for the Warrant Shares purchased) a new Warrant evidencing the rights of the Holder hereof to purchase the balance of the Warrant Shares purchasable hereunder upon the same terms and conditions as herein set forth. Upon proper exercise of this Warrant, the Company promptly shall deliver certificates for the Warrant Shares to the Holder duly legended as authorized by the subscription form. No fractional shares shall be issued upon exercise of this Warrant. With respect to any fraction of a share called for upon exercise hereof, the Company shall pay to the Holder an amount in cash equal to such fraction multiplied by the Current Market Price of one (1) share of Common Stock.

2. Reservation of Warrant Shares; Fully Paid Shares; Taxes. The Company hereby undertakes until expiration of this Warrant to reserve for issuance or delivery upon exercise of this Warrant, such number of shares of the Common Stock as shall be required for issuance and/or delivery upon exercise of this Warrant in full, and agrees that all Warrant Shares so issued and/or delivered will be validly issued, fully paid and non-assessable, and further agrees to pay all taxes and charges that may be imposed upon such issuance and/or delivery.

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3. Protection Against Dilution.

(a) In case the Company shall hereafter (i) pay a dividend or make a distribution on its capital stock in shares of Common Stock, (ii) subdivide its outstanding shares of Common Stock into a greater number of shares, (iii) combine its outstanding shares of Common Stock into a smaller number of shares or (iv) issue by reclassification of its Common Stock any shares of capital stock of the Company, the Per Share Exercise Price shall be adjusted to be equal to a fraction, the numerator of which shall be the Aggregate Exercise Price and the denominator of which shall be the number of shares of Common Stock or other capital stock of the Company which the Holder would have owned immediately following such action had this Warrant been exercised immediately prior thereto. An adjustment made pursuant to this Subsection 3(a) shall become effective immediately after the record date in the case of a dividend or distribution and shall become effective immediately after the effective date in the case of a subdivision, combination or reclassification.

(b) In the event of any capital reorganization or reclassification, or any consolidation or merger to which the Company is a party other than a merger or

consolidation in which the Company is the continuing corporation, or in case of any sale or conveyance to another entity of the property of the Company as an entirety or substantially as an entirety, or in the case of any statutory exchange of securities with another corporation (including any exchange effected in connection with a merger of a third corporation into the Company), the Holder of this Warrant shall have the right thereafter to receive on the exercise of this Warrant the kind and amount of securities, cash or other property which the Holder would have owned or have been entitled to receive immediately after such reorganization, reclassification, consolidation, merger, statutory exchange, sale or conveyance had this Warrant been exercised immediately prior to the effective date of such reorganization, reclassification, consolidation, merger, statutory exchange, sale or conveyance and in any such case, if necessary, appropriate adjustment shall be made in the application of the provisions set forth in this Section 3 with respect to the rights and interests thereafter of the Holder of this Warrant to the end that the provisions set forth in this Section 3 shall thereafter correspondingly be made applicable, as nearly as may reasonably be, in relation to any shares of stock or other securities or property thereafter deliverable on the exercise of this Warrant. The above provisions of this Subsection 3(b) shall similarly apply to successive reorganizations, reclassifications, consolidations, mergers, statutory exchanges, sales or conveyances. The issuer of any shares of stock or other securities or property thereafter deliverable upon the exercise of this Warrant shall be responsible for all of the agreements and obligations of the Company hereunder. Notice of any such reorganization, reclassification, consolidation, merger, statutory exchange, sale or conveyance and of said provisions so proposed to be made, shall be mailed to the Holders of the Warrants not less than 30 days prior to such event. A sale of all or substantially all of the assets of the Company for a consideration consisting primarily of securities shall be deemed a consolidation or merger for the foregoing purposes.

(c) No adjustment in the Per Share Exercise Price shall be required unless such adjustment would require an increase or decrease of at least \$0.05 per share of Common Stock; provided, however, that any adjustments that by reason of this Subsection 3(c) are not required to be made shall be carried forward and taken into account in any subsequent adjustment; provided, further, however, that adjustments shall be required and made in accordance with the provisions of this Section 3 (other than this Subsection 3(c)) not later than such time as may be required in order to preserve the tax-free nature of a distribution to the Holder of this Warrant or Common Stock issuable upon the exercise hereof. All calculations under this Section 3 shall be made to the nearest cent or to the nearest 1/100th of a share, as the case may be. Anything in this Section 3 to the contrary notwithstanding, the Company shall be entitled to make such reductions in the Per Share Exercise Price, in addition to those required by this Section 3, as it in its discretion shall deem to be advisable in order that any stock dividend, subdivision of shares or distribution of rights to purchase stock or securities

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convertible or exchangeable for stock hereafter made by the Company to its stockholders shall not be taxable.

(d) Whenever the Per Share Exercise Price is adjusted as provided in this Section 3 and upon any modification of the rights of a Holder of Warrants in accordance with this Section 3, the Company shall promptly provide a certificate of its Chief Accounting Officer setting forth the Per Share Exercise Price and the number of Warrant Shares after such adjustment or the effect of such modification, a brief statement of the facts requiring such adjustment or modification and the manner of computing the same and cause copies of such certificate to be mailed to the Holders of the Warrants.

(e) If, as a result of an adjustment made pursuant to this Section 3, the Holder of any Warrant thereafter surrendered for exercise shall become entitled to receive shares of two or more classes of capital stock or shares of Common Stock and other capital stock of the Company, the Board of Directors (whose determination shall be conclusive and shall be described in a written notice to

the Holder of any Warrant promptly after such adjustment) shall determine the allocation of the adjusted Per Share Exercise Price between or among shares or such classes of capital stock or shares of Common Stock and other capital stock.

4. Limited Transferability. In addition to the limitation on transferability set forth in Section 1(a) hereof, this Warrant may not be sold, transferred, assigned or hypothecated by the Holder except in compliance with the provisions of the Act and the applicable state securities "blue sky" laws, and is so transferable only upon the books of the Company which it shall cause to be maintained for such purpose. The Company may treat the registered Holder of this Warrant as he or it appears on the Company's books at any time as the Holder for all purposes. The Company shall permit any Holder of a Warrant or his duly authorized attorney, upon written request during ordinary business hours, to inspect and copy or make extracts from its books showing the registered holders of Warrants. All Warrants issued upon the transfer or assignment of this Warrant will be dated the same date as this Warrant, and all rights of the holder thereof shall be identical to those of the Holder.

5. Loss, etc., of Warrant. Upon receipt of evidence satisfactory to the Company of the loss, theft, destruction or mutilation of this Warrant, and of indemnity reasonably satisfactory to the Company, if lost, stolen or destroyed, and upon surrender and cancellation of this Warrant, if mutilated, the Company shall execute and deliver to the Holder a new Warrant of like date, tenor and denomination.

6. Status of Holder. This Warrant does not confer upon the Holder any right to vote or to consent to or receive notice as a stockholder of the Company, as such, in respect of any matters whatsoever, or any other rights or liabilities as a stockholder, prior to the exercise hereof.

7. Notices. No notice or other communication under this Warrant shall be effective unless, but any notice or other communication shall be effective and shall be deemed to have been given, if the same is in writing and is mailed by first-class mail, postage prepaid, addressed to:

If to the Holder: If to the Holder: 300 Longwood Avenue, Boston, MA 02115 Attn. Donald P. Lombardi; or

If to the Company: If to the Company: 7 Hartom Street, POB 23706, Jerusalem, Israel 91236 Attn: General Counsel

8. Headings. The headings of this Warrant have been inserted as a matter of convenience and shall not affect the construction hereof.

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9. Applicable Law. This Warrant shall be governed by and construed in accordance with the laws of the Commonwealth of Massachusetts, without regard to principles of conflicts of law. Notwithstanding anything to the contrary contained herein, in no event may the effective rate of interest collected or received by the Holder exceed that which may be charged, collected or received by the Holder under applicable law. The parties agree to settle any disputes through binding arbitration in the city of Boston.

IN WITNESS WHEREOF, the Company has caused this Warrant to be signed by its Chief Executive Officer and attested by its Secretary this 3rd day of March 2003.

KERYX BIOPHARMACEUTICALS, INC.

By: /s/ Michael S. Weiss

Name: Michael S. Weiss

Title: Chief Executive Officer

ATTEST:

/s/ Bob Trachtenberg

Secretary

(NOT PERMITTED UNTIL INITIAL VESTING DATE)

SUBSCRIPTION

The undersigned, _____, pursuant to the provisions of the foregoing Warrant, hereby elects to exercise the within Warrant to the extent of purchasing _____ shares of Common Stock thereunder and hereby makes payment of \$_____ by certified or official bank check in payment of the exercise price therefor.

The undersigned hereby represents and warrants to the Company that the undersigned is acquiring the shares of the Company's Common Stock pursuant to exercise of the within Warrant for investment purposes only. The undersigned hereby further acknowledges that the undersigned understands that such shares (a) have not been registered under the Securities Act of 1933, as amended, and are being issued to the undersigned by the Company in reliance upon the foregoing representation and warranty and (b) may not be resold except in accordance with the requirements of the Act, including Rule 144 thereunder, if applicable. The undersigned further consents to the placing of a legend on the certificates for the shares being purchased to the foregoing effect.

Dated: _____

Signature: _____

Address: _____

ASSIGNMENT

FOR VALUE RECEIVED _____ hereby sells, assigns and transfers unto _____ the foregoing Warrant and all rights evidenced thereby, and does irrevocably constitute and appoint _____, attorney, to transfer said Warrant on the books of Keryx Biopharmaceuticals, Inc.

Dated: _____

Signature: _____

Address: _____

CASHLESS EXERCISE

The undersigned _____, pursuant to the provisions of the foregoing Warrant, hereby elects to exchange its Warrant for _____ shares of Common Stock, par value \$.001 per share, of SignalSite, Inc. pursuant to the Cashless Exercise provisions of the Warrant.

Dated: _____

Signature: _____

Address: _____

PARTIAL ASSIGNMENT

FOR VALUE RECEIVED _____ hereby assigns and transfers unto

_____ the right to purchase _____ shares of the Common Stock, no par value per share, of SignalSite, Inc. covered by the foregoing Warrant, and a proportionate part of said Warrant and the rights evidenced thereby, and does irrevocably constitute and appoint _____, attorney, to transfer that part of said Warrant on the books of Keryx Biopharmaceuticals, Inc.

Dated: _____

Signature: _____

Address: _____

THE SECURITIES REPRESENTED BY THIS CERTIFICATE ARE NOT TRANSFERABLE WITHOUT THE EXPRESS WRITTEN CONSENT OF KERYX BIOPHARMACEUTICALS, INC. (THE "COMPANY") AND HAVE NOT BEEN REGISTERED UNDER THE SECURITIES ACT OF 1933 OR ANY APPLICABLE STATE SECURITIES LAWS, AND MAY NOT BE SOLD, OFFERED FOR SALE, PLEDGED OR HYPOTHECATED OR OTHERWISE TRANSFERRED IN THE ABSENCE OF A REGISTRATION STATEMENT IN EFFECT WITH RESPECT TO THE SECURITIES UNDER SUCH ACT OR AN EXEMPTION THEREFROM. ANY SUCH TRANSFER MAY ALSO BE SUBJECT TO APPLICABLE STATE SECURITIES LAWS.

KERYX BIOPHARMACEUTICALS, INC.

Warrant for the Purchase of Shares of
Common Stock

No. 1

200,000 Shares

FOR VALUE RECEIVED, KERYX BIOPHARMACEUTICALS, INC., a Delaware corporation (the "Company"), hereby certifies that YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM or its registered assigns (the "Holder") is entitled to purchase from the Company, subject to the provisions of this Warrant, at any time commencing upon the date (the "Vesting Date") of the issuance by the United States Patent and Trademark Office ("USPTO") of the first patent arising from the invention described in the utility patent application entitled NEW HETEROCYCLIC COMPOUNDS, METHOD OF DEVELOPING NEW DRUG LEADS AND COMBINATORIAL LIBRARIES USED IN SUCH METHOD, filed with the USPTO on January 3, 2002, and prior to 5:00 P.M., New York City time, on January 9, 2012 (the "Termination Date"), Two Hundred Thousand (200,000) fully paid and non-assessable shares of the Common Stock, \$.001 par value, of the Company ("Common Stock") at an initial per share exercise price equal to \$6.19, or an initial aggregate exercise price of \$1,382,000.00. The number of shares of Common Stock to be received upon exercise of this Warrant and the price to be paid for each share of Common Stock are subject to possible adjustment from time to time as hereinafter set forth. The shares of Common Stock or other securities or property deliverable upon such exercise as adjusted from time to time is hereinafter sometimes referred to as the "Warrant Shares," the exercise price of a share of Common Stock in effect at any time and as adjusted from time to time is hereinafter sometimes referred to as the "Per Share Exercise Price" and the aggregate purchase price payable for the Warrant Shares hereunder is hereinafter sometimes referred to as the "Aggregate Exercise Price." The Aggregate Exercise Price is not subject to adjustment. The Per Share Exercise Price is subject to adjustment as hereinafter provided; in the event of any such adjustment, the number of Warrant Shares shall be adjusted by dividing the Aggregate Exercise Price by the Per Share Exercise Price in effect immediately after such adjustment. This Warrant is one of a duly authorized issue of Warrants constituting components of units being sold by the Company on the date hereof (collectively, the "Warrants").

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1. Exercise of Warrant.

(a) This Warrant is not transferable and may not be assigned or otherwise disposed of by the Holder until the Vesting Date.

(b) This Warrant may be exercised in whole or in part, at any time by the Holder commencing upon the Vesting Date and prior to the Termination Date:

(i) by presentation and surrender of this Warrant (with the subscription form at the end hereof duly executed) at the address set forth in Subsection 8(a) hereof, together with payment, by certified or official bank check payable to the order of the Company, of the Aggregate Exercise Price or the proportionate part thereof if exercised in part.

(ii) by the surrender of this Warrant (with the cashless exercise form at the end hereof duly executed) (a "Cashless Exercise") at the address set forth in Section 8(a) hereof. Such presentation and surrender shall be deemed a waiver of the Holder's obligation to pay the Aggregate Exercise Price, or the proportionate part thereof if this Warrant is exercised in part. In the event of a Cashless Exercise, the Holder shall exchange its Warrant for that number of Warrant Shares subject to such Cashless Exercise multiplied by a fraction, the numerator of which shall be the difference between (A) the last sale price of the Common Stock on the trading day prior to such date or, in case no such reported sales take place on such day, the average of the last reported bid and asked prices of the Common Stock on such day, in either case on the principal national securities exchange on which the Common Stock is admitted to trading or listed, or if not listed or admitted to trading on any such exchange, the representative closing sale price of the Common Stock as reported by the National Association of Securities Dealers, Inc. Automated Quotations System ("NASDAQ"), or other similar organization if NASDAQ is no longer reporting such information, or, if the Common Stock is not reported on NASDAQ, the high per share sale price for the Common Stock in the over-the-counter market as reported by the National Quotation Bureau or similar organization, or if not so available, the fair market value of the Common Stock as determined in good faith by the Board of Directors (the "Current Market Price") and (B) the Per Share Exercise Price, and the denominator of which shall be the then Current Market Price. For purposes of any computation under this Section 1(a), the then Current Market Price shall be based on the trading day immediately prior to the Cashless Exercise.

(c) If this Warrant is exercised in part only, the Company shall, upon presentation of this Warrant upon such exercise, execute and deliver (with the certificate for the Warrant Shares purchased) a new Warrant evidencing the rights of the Holder hereof to purchase the balance of the Warrant Shares purchasable hereunder upon the same terms and conditions as herein set forth. Upon proper exercise of this Warrant, the Company promptly shall deliver certificates for the Warrant Shares to the Holder duly legended as authorized by the subscription form. No fractional shares shall be issued upon exercise of this Warrant. With respect to any fraction of a share called for upon exercise hereof, the Company shall pay to the Holder an amount in cash equal to such fraction multiplied by the Current Market Price of one (1) share of Common Stock.

2. Reservation of Warrant Shares; Fully Paid Shares; Taxes. The Company hereby undertakes until expiration of this Warrant to reserve for issuance or delivery upon exercise of this Warrant, such number of shares of the Common Stock as shall be required for issuance and/or delivery upon exercise of this Warrant in full, and agrees that all Warrant Shares so issued and/or delivered will be validly issued, fully paid and non-assessable, and further agrees to pay all taxes and charges that may be imposed upon such issuance and/or delivery.

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3. Protection Against Dilution.

(a) In case the Company shall hereafter (i) pay a dividend or make a distribution on its capital stock in shares of Common Stock, (ii) subdivide its outstanding shares of Common Stock into a greater number of shares, (iii) combine its outstanding shares of Common Stock into a smaller number of shares or (iv) issue by reclassification of its Common Stock any shares of capital stock of the Company, the Per Share Exercise Price shall be adjusted to be equal to a fraction, the numerator of which shall be the Aggregate Exercise Price and the denominator of which shall be the number of shares of Common Stock or other capital stock of the Company which the Holder would have owned immediately following such action had this Warrant been exercised immediately thereto. An adjustment made pursuant to this Subsection 3(a) shall become effective immediately after the record date in the case of a dividend or distribution and shall become effective immediately after the effective date in the case of a subdivision, combination or reclassification.

(b) In the event of any capital reorganization or reclassification, or any consolidation or merger to which the Company is a party other than a merger or consolidation in which the Company is the continuing corporation, or in case of any sale or conveyance to another entity of the property of the Company as an entirety or substantially as an entirety, or in the case of any statutory exchange of securities with another corporation (including any exchange effected in connection with a merger of a third corporation into the Company), the Holder of this Warrant shall have the right thereafter to receive on the exercise of this Warrant the kind and amount of securities, cash or other property which the Holder would have owned or have been entitled to receive immediately after such reorganization, reclassification, consolidation, merger, statutory exchange, sale or conveyance had this Warrant been exercised immediately prior to the effective date of such reorganization, reclassification, consolidation, merger, statutory exchange, sale or conveyance and in any such case, if necessary, appropriate adjustment shall be made in the application of the provisions set forth in this Section 3 with respect to the rights and interests thereafter of the Holder of this Warrant to the end that the provisions set forth in this Section 3 shall thereafter correspondingly be made applicable, as nearly as may reasonably be, in relation to any shares of stock or other securities or property thereafter deliverable on the exercise of this Warrant. The above provisions of this Subsection 3(b) shall similarly apply to successive reorganizations, reclassifications, consolidations, mergers, statutory exchanges, sales or conveyances. The issuer of any shares of stock or other securities or property thereafter deliverable upon the exercise of this Warrant shall be responsible for all of the agreements and obligations of the Company hereunder. Notice of any such reorganization, reclassification, consolidation, merger, statutory exchange, sale or conveyance and of said provisions so proposed to be made, shall be mailed to the Holders of the Warrants not less than 30 days prior to such event. A sale of all or substantially all of the assets of the Company for a consideration consisting primarily of securities shall be deemed a consolidation or merger for the foregoing purposes.

(c) No adjustment in the Per Share Exercise Price shall be required unless such adjustment would require an increase or decrease of at least \$0.05 per share of Common Stock; provided, however, that any adjustments that by reason of this Subsection 3(c) are not required to be made shall be carried forward and taken into account in any subsequent adjustment; provided, further, however, that adjustments shall be required and made in accordance with the provisions of this Section 3 (other than this Subsection 3(c)) not later than such time as may be required in order to preserve the tax-free nature of a distribution to the Holder of this Warrant or Common Stock issuable upon the exercise hereof. All calculations under this Section 3 shall be made to the nearest cent or to the nearest 1/100th of a share, as the case may be. Anything in this Section 3 to the contrary notwithstanding, the Company shall be entitled to make such reductions in the Per Share Exercise Price, in addition to those required by this Section 3, as it in its discretion shall deem to be advisable in order that any stock dividend, subdivision of shares or distribution of rights to purchase stock or securities

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convertible or exchangeable for stock hereafter made by the Company to its stockholders shall not be taxable.

(d) Whenever the Per Share Exercise Price is adjusted as provided in this Section 3 and upon any modification of the rights of a Holder of Warrants in accordance with this Section 3, the Company shall promptly provide a certificate of its Chief Accounting Officer setting forth the Per Share Exercise Price and the number of Warrant Shares after such adjustment or the effect of such modification, a brief statement of the facts requiring such adjustment or modification and the manner of computing the same and cause copies of such certificate to be mailed to the Holders of the Warrants.

(e) If, as a result of an adjustment made pursuant to this Section 3, the Holder of any Warrant thereafter surrendered for exercise shall become entitled to receive shares of two or more classes of capital stock or shares of Common

Stock and other capital stock of the Company, the Board of Directors (whose determination shall be conclusive and shall be described in a written notice to the Holder of any Warrant promptly after such adjustment) shall determine the allocation of the adjusted Per Share Exercise Price between or among shares or such classes of capital stock or shares of Common Stock and other capital stock.

4. Limited Transferability. In addition to the limitation on transferability set forth in Section 1(a) hereof, this Warrant may not be sold, transferred, assigned or hypothecated by the Holder except in compliance with the provisions of the Act and the applicable state securities "blue sky" laws, and is so transferable only upon the books of the Company which it shall cause to be maintained for such purpose. The Company may treat the registered Holder of this Warrant as he or it appears on the Company's books at any time as the Holder for all purposes. The Company shall permit any Holder of a Warrant or his duly authorized attorney, upon written request during ordinary business hours, to inspect and copy or make extracts from its books showing the registered holders of Warrants. All Warrants issued upon the transfer or assignment of this Warrant will be dated the same date as this Warrant, and all rights of the holder thereof shall be identical to those of the Holder.

5. Loss, etc., of Warrant. Upon receipt of evidence satisfactory to the Company of the loss, theft, destruction or mutilation of this Warrant, and of indemnity reasonably satisfactory to the Company, if lost, stolen or destroyed, and upon surrender and cancellation of this Warrant, if mutilated, the Company shall execute and deliver to the Holder a new Warrant of like date, tenor and denomination.

6. Status of Holder. This Warrant does not confer upon the Holder any right to vote or to consent to or receive notice as a stockholder of the Company, as such, in respect of any matters whatsoever, or any other rights or liabilities as a stockholder, prior to the exercise hereof.

7. Notices. No notice or other communication under this Warrant shall be effective unless, but any notice or other communication shall be effective and shall be deemed to have been given, if the same is in writing and is mailed by first-class mail, postage prepaid, addressed to:

If to the Holder: If to the Holder: 46 Jabotinsky Street, Jerusalem, Israel
Attn: Avi Barak; or

If to the Company: If to the Company: 7 Hartom Street, POB 23706, Jerusalem,
Israel 91236 Attn: General Counsel

8. Headings. The headings of this Warrant have been inserted as a matter of convenience and shall not affect the construction hereof.

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9. Applicable Law. This Warrant shall be governed by and construed in accordance with the laws of the Commonwealth of Massachusetts, without regard to principles of conflicts of law. Notwithstanding anything to the contrary contained herein, in no event may the effective rate of interest collected or received by the Holder exceed that which may be charged, collected or received by the Holder under applicable law. The parties agree to settle any disputes through binding arbitration in the city of Boston.

IN WITNESS WHEREOF, the Company has caused this Warrant to be signed by its Chief Executive Officer and attested by its Secretary this 10th day of January 2002.

KERYX BIOPHARMACEUTICALS, INC.

By: /s/ Benjamin Corn

Name: Benjamin Corn, M.D.

ATTEST:

/s/ Bob Trachtenberg

Secretary

(NOT PERMITTED UNTIL INITIAL VESTING DATE)

SUBSCRIPTION

The undersigned, _____, pursuant to the provisions of the foregoing Warrant, hereby elects to exercise the within Warrant to the extent of purchasing _____ shares of Common Stock thereunder and hereby makes payment of \$_____ by certified or official bank check in payment of the exercise price therefor.

The undersigned hereby represents and warrants to the Company that the undersigned is acquiring the shares of the Company's Common Stock pursuant to exercise of the within Warrant for investment purposes only. The undersigned hereby further acknowledges that the undersigned understands that such shares (a) have not been registered under the Securities Act of 1933, as amended, and are being issued to the undersigned by the Company in reliance upon the foregoing representation and warranty and (b) may not be resold except in accordance with the requirements of the Act, including Rule 144 thereunder, if applicable. The undersigned further consents to the placing of a legend on the certificates for the shares being purchased to the foregoing effect.

Dated: _____

Signature: _____

Address: _____

ASSIGNMENT

FOR VALUE RECEIVED _____ hereby sells, assigns and transfers unto _____ the foregoing Warrant and all rights evidenced thereby, and does irrevocably constitute and appoint _____, attorney, to transfer said Warrant on the books of Keryx Biopharmaceuticals, Inc.

Dated: _____

Signature: _____

Address: _____

CASHLESS EXERCISE

The undersigned _____, pursuant to the provisions of the foregoing Warrant, hereby elects to exchange its Warrant for _____ shares of Common Stock, par value \$.001 per share, of SignalSite, Inc. pursuant to the Cashless Exercise provisions of the Warrant.

Dated: _____

Signature: _____

Address: _____

PARTIAL ASSIGNMENT

FOR VALUE RECEIVED _____ hereby assigns and transfers unto _____ the right to purchase _____ shares of the Common Stock, no par value per share, of SignalSite, Inc. covered by the foregoing Warrant, and a proportionate part of said Warrant and the rights evidenced thereby, and does irrevocably constitute and appoint _____, attorney, to transfer that part of said Warrant on the books of Keryx Biopharmaceuticals, Inc.

Dated: _____

Signature: _____

Address: _____

February 27, 2002

BY FACSIMILE TRANSMISSION

Morris Laster, M.D.
Reuven Sheri 11
Jerusalem, Israel 97289

Dear Dr. Laster:

As we discussed and agreed, your employment with Keryx Biopharmaceuticals, Inc. (the "Company") will terminate, effective March 21, 2003 or at an earlier date to be agreed upon by you and the Company (the "Termination Date"). As part of the termination of your employment with the Company, effective December 23, 2002, you shall cease to hold the position of Executive Chairman of the Company and all other positions you held as a director or officer of the Company and any subsidiary or affiliate of the Company, but you shall remain employed by the Company and shall receive the same rate of compensation and benefits as you are currently receiving through the Termination Date (the "Transition Period"). In exchange for such compensation and benefits, you agree that you shall assist designated Company employees with transitional matters throughout the Transition Period.

As we discussed, following the Termination Date, the Company will provide you with the enhanced severance benefits described on Attachment A hereto if you sign and return this letter agreement (the "Agreement") on or before March 6, 2003 and you execute, on the Termination Date, the Release Agreement attached as Attachment B to this Agreement (the "Release Agreement").

By signing and returning the Agreement and the Release Agreement, you will be agreeing to the terms and conditions set forth in the paragraphs therein, including the release of claims. Therefore, you are advised to consult with an attorney before signing this Agreement and the Release Agreement and you may take up to seven (7) days to do so. If you choose not to timely sign and return both this Agreement and the Release Agreement, you shall not receive any enhanced severance benefits from the Company.

If you choose not to sign this Agreement by March 6, 2003 or the Release Agreement on the Termination Date, you shall not receive the enhanced severance benefits described in Attachment A. You will, however, receive payment for any accrued wages, unused vacation time and any severance payments due pursuant to the terms of the Severance Compensation Law - 1963 that accrued through the Termination Date. Also, regardless of signing this Agreement or the Release Agreement, you may elect to continue receiving group medical insurance pursuant to the federal "COBRA" law, 29 U.S.C. Section 1161 et seq. All premium costs shall be paid by you on a monthly basis for as long as, and to the extent that, you remain eligible for COBRA continuation. You should consult the COBRA materials to be provided by the Company for details regarding

these benefits. All other benefits, including life insurance and long-term disability, will cease upon the Termination Date in accordance with the plan documents.

The following paragraphs and attachments set forth the terms and conditions that will apply if you timely sign and return this Agreement by February 27, 2003 and if you sign and return the Release Agreement on the Termination Date:

1. Termination Date - The effective date of the termination or your employment with the Company is March 21, 2003.
2. Description of Enhanced Severance Benefits - The enhanced severance benefits to be paid to you if you timely sign and return this Agreement and the Release Agreement are described in the "Description of Enhanced Severance Benefits" attached as Attachment A (the "enhanced severance

benefits").

3. Release - Subject to the fulfillment of the Enhanced Severance Benefits Agreement by the Company and the release declaration of the Company and in consideration of the payment of the enhanced severance benefits, which you acknowledge you would not otherwise be entitled to receive, you hereby fully, forever, irrevocably and unconditionally release, remise and discharge TriNet Employer Group, Inc. and the Company, including all of their respective officers, directors, stockholders, corporate affiliates, subsidiaries, and parent companies and their respective agents and employees, from any and all claims, charges, complaints, demands, actions, causes of action, suits, rights, debts, sums of money, costs, accounts, reckonings, covenants, contracts, agreements, promises, doings, omissions, damages, executions, obligations, liabilities, and expenses (including attorneys' fees and costs), of every kind and nature that you ever had or now have against TriNet Employer Group, Inc. and the Company, including all of their respective officers, directors, stockholders, corporate affiliates, subsidiaries and parent companies and their respective agents and employees, arising out of your employment with and/or separation from the Company including, but not limited to, all employment discrimination claims under Title VII of the Civil Rights Act of 1964, 42 U.S.C. Section 2000e et seq., the Americans With Disabilities Act of 1990, 42 U.S.C. Section 12101 et seq., the Family and Medical Leave Act, 29 U.S.C. Section 2601 et seq., the Worker Adjustment and Retraining Notification Act ("WARN"), 29 U.S.C. Section 2101 et seq. and the Rehabilitation Act of 1973, 29 U.S.C. Section 701 et seq., all as amended, and all claims arising out of the Fair Credit Reporting Act, 15 U.S.C. Section 1681 et seq., the Employee Retirement Income Security Act of 1974 ("ERISA"), 29 U.S.C. Section 1001 et seq., the Massachusetts Fair Employment Practices Act, M.G.L. c.151B, Section 1 et seq., the Massachusetts Civil Rights Act, M.G.L. c.12, Sections 11H and 11I, the Massachusetts Equal Rights Act, M.G.L. c.93, Section 102 and M.G.L. c.214, Section 1C, the Massachusetts Labor and Industries Act, M.G.L. c.149, Section 1 et seq., the Massachusetts Privacy Act, M.G.L. c.214, Section 1B, and the Massachusetts Maternity Leave Act, M.G.L. c.149, Section 105(d), and all relevant laws of the State of Israel, all as amended, all common law claims including, but not limited to, actions in tort, defamation and breach of contract (including all claims alleged under the terms of the Employment Agreement, as defined below), all claims to any non-vested ownership interest in the Company, contractual or otherwise, including, but not limited to, claims to

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stock or stock options, and any claim or damage arising out of your employment with and/or separation from the Company (including a claim for retaliation) under any common law theory or any federal, state or local statute or ordinance not expressly referenced above; provided, however, that nothing in this Agreement shall prevent you from filing, cooperating with, or participating in a discrimination proceeding before a state or federal Fair Employment Practices Agency or court (except that you acknowledge that you may not recover any monetary benefit in such proceeding unless this Agreement is held invalid by such an agency or court).

4. Non-Disclosure, Non-Competition and Inventions - You acknowledge your obligation to keep confidential all non-public information concerning the Company that you acquired during the course of your employment with the Company, as stated more fully in Sections 8.8 and 8.9 of the Amended Employment Agreement you executed on November 26, 2001 (the "Employment Agreement"), which Sections remain in full force and effect. You further acknowledge and reaffirm your obligations under Sections 8.10 and 9 of the Employment Agreement, including your obligation not to compete with the Company, which also remain in full force and effect.
5. Non-Interference - Further you acknowledge and agree that during the

period ending 12 months after the Termination Date (the "Non-Interference Period"), you shall not, directly or indirectly, without the prior written consent of the Company:

- (a) interfere with, disrupt or attempt to disrupt any past, present or prospective relationship, contractual or otherwise, between the Company and any of its licensors, licensees, clients, customers, suppliers, employees or other related parties, or solicit or induce for hire any of the employees, agents, consultants or advisors of the Company or any such individual who in the past was employed or retained by the Company, within six (6) months of the termination of said individual's employment or retention by the Company.; and
 - (b) attempt to license, directly or indirectly, any of the technologies, projects or products currently under license by the Company from either Yissum Research and Development Company of the Hebrew University of Jerusalem ("Yissum") or the Children's Medical Center Corporation ("CMCC") (collectively, the "Licensed Projects") or become an officer, director, employee, consultant or shareholder in any entity that seeks to license, directly or indirectly, any of the Licensed Projects during the Non-Interference Period.
 - (c) The burden of proof for any breach, by you, of this section 5, shall be on the Company.
6. Return of Company Property - You agree to return within seven (7) days of the Termination Date all Company property including, but not limited to, keys, files, office

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equipment, passwords, passcodes, computer software (and all copies thereof), and computer hardware, that is in your possession or control. You further agree to leave intact all electronic Company documents, including those that you developed during your employment.

- 7. Execution of Release Agreement - You agree to execute on the Termination Date the Release Agreement in the form attached hereto as Attachment B.
- 8. Termination of Employment Positions - You hereby terminate, effective December 23, 2002, to act in the position of Executive Chairman of the Company, as well as from any and all other positions as an officer or director of the Company and any and all of its subsidiaries or affiliates.
- 9. Non-Disparagement - To the extent not in violation of the law, you understand and agree that as a condition for payment to you of the enhanced severance benefits herein described, you shall not make any false, disparaging or derogatory statements to any media outlet, industry group, financial institution or current or former employee, consultant, client or customer of the Company regarding the Company, its subsidiaries and their respective directors, officers, employees, agents or representatives or about the Company's business affairs, financial condition, products and technologies.
- 10. Amendment - This Agreement, including the Release Agreement, shall be binding upon the parties and may not be modified in any manner, except by an instrument in writing of concurrent or subsequent date signed by duly authorized representatives of the parties hereto. This Agreement and the Release Agreement are binding upon and shall inure to the benefit of the parties and their respective agents, assigns, heirs, executors, successors and administrators.
- 11. Waiver of Rights - No delay or omission by the Company in exercising any right under this Agreement or the Release Agreement shall operate as a waiver of that or any other right. A waiver or consent given by the Company on any one occasion shall be effective only in that instance and

shall not be construed as a bar to or waiver of any right on any other occasion. Furthermore, in the event you breach any term of the Agreement, including the Release Agreement, the Company reserves its right to pursue any and all remedies and damages available to it concerning such breach.

12. Validity - Should any provision of this Agreement or the Release Agreement be declared or be determined by any court of competent jurisdiction to be illegal or invalid, the validity of the remaining parts, terms or provisions shall not be affected thereby and said illegal or invalid part, term or provision shall be deemed not to be a part of this Agreement or the Release Agreement, as applicable.
13. Confidentiality - To the extent permitted by law, you understand and agree that as a condition for payment to you of the enhanced severance benefits herein described, the terms and contents of this Agreement and the Release Agreement, and the contents of the negotiations and discussions resulting in this Agreement and the Release Agreement,

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shall be maintained as confidential by you and your agents and representatives and shall not be disclosed to any third party except to the extent required by federal or state law or as otherwise agreed to in writing by the Company. You understand and agree that the Company will have to file the Agreement and Release Agreement with appropriate federal agencies.

14. Nature of Agreement - You understand and agree that this Agreement and the Release Agreement is a severance agreement and does not constitute an admission of liability or wrongdoing on the part of the Company.
15. Acknowledgments - You acknowledge that you have been given at least seven (7) days to consider this Agreement and that the Company advised you to consult with an attorney of your own choosing prior to signing this Agreement.
16. Voluntary Assent - You affirm that no other promises or agreements of any kind have been made to or with you by any person or entity whatsoever to cause you to sign this Agreement or the Release Agreement, and that you fully understand the meaning and intent of this Agreement and the Release Agreement. You state and represent that you have had an opportunity to fully discuss and review the terms of this Agreement, including Attachments A and B, with an attorney. You further state and represent that you have carefully read this Agreement, including Attachments A and B, understand the contents herein, freely and voluntarily assent to all of the terms and conditions hereof, and sign your name of your own free act.
17. Applicable Law - This Agreement and the Release Agreement shall be interpreted and construed by the laws of the Commonwealth of Massachusetts, without regard to conflict of laws provisions. You hereby irrevocably submit to and acknowledge and recognize the jurisdiction of the courts of the Commonwealth of Massachusetts, or if appropriate, a federal court located in Massachusetts (which courts, for purposes of this Agreement and the Release Agreement, are the only courts of competent jurisdiction), over any suit, action or other proceeding arising out of, under or in connection with this Agreement, the Release Agreement or the subject matter hereof.
18. Entire Agreement - This Agreement, including Attachments A and B, contains and constitutes the entire understanding and agreement between the parties hereto with respect to your enhanced severance benefits and the settlement of claims against the Company and cancels all previous oral and written negotiations, agreements, commitments, writings in connection therewith. Nothing in this paragraph, however,

19. shall modify, cancel or supersede your obligations set forth in paragraph 4.

If you have any questions about the matters covered in this Agreement or the Release Agreement, please call me. If you choose to execute this Agreement, please return all pages of this Agreement, including Attachments A and B, to me no later than February 27, 2003. You may retain the enclosed copy of the Agreement for your records.

Very truly yours,

By: /s/ Michael. S. Weiss

Name: Michael S. Weiss
Title: Chief Executive Officer

I hereby agree to the terms and conditions set forth above and in Attachments A and B. I have been given at least seven (7) days to consider this Agreement and the Release Agreement and I have chosen to execute this Agreement on the date below. I intend that this Agreement and the Release Agreement will become a binding agreement between the Company and me.

/s/ Morris Laster

Date 2/27/03

Employee Name: Morris Laster, M.D.

To be returned by March 6, 2003.

ATTACHMENT A

DESCRIPTION OF ENHANCED SEVERANCE BENEFITS

In exchange for your timely execution of this Agreement and the Release Agreement, including the release of claims found therein, the Company agrees to provide you with the following enhanced severance benefits (collectively, the "Enhanced Severance Benefits"):

For avoidance of any doubt and for clarification purpose, you shall be entitled to receive the following benefits according to Israeli law, in addition to the Enhanced Severance Benefits described herein in sections (a-e) these benefits (1-4) will be paid to you unconditionally, regardless of the Release Agreement:

1. The Company shall pay all your salaries and benefits until March 21, 2003 .
2. The Company shall furnish you a notice of release to the insurance company of Bituach Menahalim in your name, which includes severance pay as required by Israeli law.
3. The Company shall furnish you a notice of release of your Keren Hishtalmut.
4. Your last salary payment following the Termination Date shall include a payment for any and all accrued but unused vacation days.

(a) Severance Pay - The Company agrees to provide you with severance pay in the amount of two hundred fifty thousand dollars (\$250,000), less all applicable taxes and withholdings, which is equivalent to twelve (12) months of salary continuation at your current annualized base rate of (the "Severance Pay"). The Severance Pay shall be paid to you over a twelve

(12) month period beginning on May 1, 2003, in accordance with the Company's normal payroll procedures (i.e. the Severance Pay shall be paid in such time and manner as the Company pays its employees their monthly salary, however, for the avoidance of doubt, payment of the Severance Pay shall in no way be considered the payment of salary and shall not be deemed to be evidence of an employer-employee relationship.

(b) Accelerated Vesting - You currently have 25,000 unvested options. Notwithstanding anything to the contrary in the 1999 or 2000 Share Option Plan, effective upon the Termination Date, one hundred percent (100%) of the portion of your option to purchase shares of common stock of the Company that remains unvested as of the Termination Date shall become immediately vested and exercisable in full.

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(c) Extension of Exercise Period - Notwithstanding anything to the contrary in the 1999 or 2000 Share Option Plans, effective upon the Termination Date, the Company shall extend the period during which you may exercise your stock options, to the extent such options are fully vested on the Termination Date after giving effect to the acceleration provided for in paragraph (b) above, until March 21, 2005.

(d) Consulting Arrangement - The Company agrees to negotiate with you a consulting arrangement for up to one (1) year from the Termination Date, under terms and conditions to be mutually agreed upon by the parties. A failure to reach such agreement shall not be deemed a breach of this severance agreement.

(e) Bonus Payment - The Company agrees to provide you, or, to the extent legally permissible, a person or entity designated by you, with a one-time cash bonus of one hundred twenty-five thousand dollars (\$125,000), less all applicable taxes and withholdings. Such one-time cash bonus shall be paid in one lump-sum payment after the Company doses the first patient in the KRX-101 U.S. Phase 3 Clinical Trial (hereinafter "the Milestone"), provided that you continue to participate, at the Company's reasonable request, in the Company's efforts to commence the Phase 3 Clinical Trial. Such participation shall include, but not be limited to, you responding in a timely manner to requests from the Company for advice and guidance with respect to the proposed clinical development program.

These participatory conditions shall apply only prior to the Termination Date. As of the Termination Date, such conditions or any other conditions for the receipt of the mentioned bonus from the Company, shall be stipulated in the Consulting Agreement mentioned in paragraph (d), above. Alternatively, in the event that a Consulting Agreement is not reached between you and the Company, the mentioned bonus shall be provided to you by the Company upon reaching the Milestone, regardless of your participation in the Company's efforts subsequent to the Termination Date.

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ATTACHMENT B

RELEASE AGREEMENT

Subject to the fulfillment of the Enhanced Severance Benefits Agreement by the Company and in consideration of the mutual promises set forth herein and in the letter agreement between the parties dated February 27, 2003 (the "Agreement"), which you acknowledge you would not otherwise be entitled to receive, you hereby fully, forever, irrevocably and unconditionally release, remise and discharge TriNet Employer Group, Inc. and the Company, including all of their respective officers, directors, stockholders, corporate affiliates, subsidiaries, and parent companies and their respective agents and employees,

from any and all claims, charges, complaints, demands, actions, causes of action, suits, rights, debts, sums of money, costs, accounts, reckonings, covenants, contracts, agreements, promises, doings, omissions, damages, executions, obligations, liabilities, and expenses (including attorneys' fees and costs), of every kind and nature that you ever had or now have against TriNet Employer Group, Inc. and the Company, including all of their respective officers, directors, stockholders, corporate affiliates, subsidiaries and parent companies and their respective agents and employees, arising out of your employment with and/or separation from the Company including, but not limited to, all employment discrimination claims under Title VII of the Civil Rights Act of 1964, 42 U.S.C. Section 2000e et seq., the Americans With Disabilities Act of 1990, 42 U.S.C. Section 12101 et seq., the Family and Medical Leave Act, 29 U.S.C. Section 2601 et seq., the Worker Adjustment and Retraining Notification Act ("WARN"), 29 U.S.C. Section 2101 et seq. and the Rehabilitation Act of 1973, 29 U.S.C. Section 701 et seq., all as amended, and all claims arising out of the Fair Credit Reporting Act, 15 U.S.C. Section 1681 et seq., the Employee Retirement Income Security Act of 1974 ("ERISA"), 29 U.S.C. Section 1001 et seq., the Massachusetts Fair Employment Practices Act, M.G.L. c.151B, Section 1 et seq., the Massachusetts Civil Rights Act, M.G.L. c.12, Sections 11H and 11I, the Massachusetts Equal Rights Act, M.G.L. c.93, Section 102 and M.G.L. c.214, Section 1C, the Massachusetts Labor and Industries Act, M.G.L. c.149, Section 1 et seq., the Massachusetts Privacy Act, M.G.L. c.214, Section 1B, and the Massachusetts Maternity Leave Act, M.G.L. c.149, Section 105(d), and all relevant laws of the State of Israel, all as amended, all common law claims including, but not limited to, actions in tort, defamation and breach of contract (including all claims alleged under the terms of the Employment Agreement, as defined in the Agreement), all claims to any non-vested ownership interest in the Company, contractual or otherwise, including, but not limited to, claims to stock or stock options, and any claim or damage arising out of your employment with and/or separation from the Company (including a claim for retaliation) under any common law theory or any federal, state or local statute or ordinance not expressly referenced above; provided, however, that nothing in this Release Agreement shall prevent you from filing, cooperating with, or participating in a discrimination proceeding before a state or federal Fair Employment Practices Agency or court (except that you acknowledge that you may not recover any monetary benefit in such proceeding unless this Release Agreement is held invalid by such an agency or court).

You acknowledge that you have been given a reasonable amount of time to consider this Release Agreement, and that the Company advised you to consult with an attorney of your choosing prior

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to signing this Release Agreement. You understand that after signing the Release Agreement it will become binding between the Company and you.

You acknowledge that you have been reimbursed by the Company for all business expenses incurred by you in conjunction with your employment with the Company and that no other reimbursements are owed to you. You further acknowledge that you have been provided with all compensation and benefits due to you as of the date of this Release Agreement, including, but not limited to, any and all wages, expense reimbursements, bonuses and any accrued but unused vacation time, and that you are not entitled to receive any additional consideration beyond that provided for in Attachment A of the Agreement.

Subject to your declarations under this Agreement the Company, the Company including all of its respective officers, directors, stockholders, corporate affiliates, subsidiaries, and parent companies and their respective agents and employees, irrevocably and unconditionally releases, remises and discharges you from any and all claims, charges, complaints, demands, actions, causes of action, suits, rights, debts, sums of money, costs, accounts, reckonings, covenants, contracts, agreements, promises, doings, omissions, damages, executions, obligations, liabilities, and expenses (including attorneys' fees and costs), of every kind and nature arising out of your services for the Company (apart from any ongoing obligations arising from the Severance Agreement

and your Amended Employment Agreement, dated November 26, 2001, including, but not limited to, your obligations of confidentiality, non-competition, non-solicitation and non-disparagement. This release is subject to the assumption that in your service you met the standards for reasonable conduct and acted in a manner reasonably believed by the Company to be in its best interest. The Company shall indemnify you for any such action arising out of your services for the Company in accordance with the Indemnification Agreement signed between you and the Company on October 16, 2000.

IN WITNESS WHEREOF, all parties have set their hand and seal to this Release Agreement as of the dates below.

Morris Laster, M.D.

/s/ Morris Laster

Date: 3/21/03

Keryx Biopharmaceuticals, Inc.../s/ Michael S. Weiss Date: 3/21/03

February 23, 2003

VIA REGISTERED MAIL

Benjamin Corn, M.D.
Rehov Zelda 1
Jerusalem, Israel

Dear Mr. Corn:

As we discussed and agreed, you have informed Keryx Biopharmaceuticals, Inc. and Keryx (Israel) Ltd. (jointly, the "Company") of your intent to resign from your employment with the Company effective March 21, 2003 or at an earlier date to be agreed upon by you and the Company (the "Resignation Date"). You shall have resigned by December 23, 2002, from your positions as President and Chief Executive Officer and all other officer or director positions that you hold with the Company and any of its subsidiaries or affiliates, but you shall remain employed by the Company and shall receive the same rate of compensation and benefits as you are currently receiving through the Resignation Date (the "Transition Period"). In exchange for such compensation and benefits, you agree that you shall assist designated Company employees with transitional matters throughout the Transition Period.

As we discussed, following the Resignation Date, the Company will provide you with the enhanced severance benefits described on Attachment A hereto if you sign and return this letter agreement (the "Agreement") on or before March 17, 2003 and you execute, on the Resignation Date, the Release Agreement attached as Attachment B to this Agreement (the "Release Agreement"), provided that you do not revoke your consent to this Agreement or Release Agreement as discussed below.

By signing and returning this Agreement and the Release Agreement, you will be agreeing to the terms and conditions set forth in the paragraphs therein, including the release of claims. Therefore, you are advised to consult with an attorney before signing this Agreement and the Release Agreement and you may take up to twenty-one (21) days to do so.

After you sign this Agreement and the Release Agreement, you may change your mind and revoke your assent of each agreement during the seven (7) day period after you have signed the specific agreement (the "Revocation Period") by notifying Bob Trachtenberg of your revocation in writing. If you do not revoke your assent to this Agreement or the Release Agreement before the expiration of the applicable Revocation Period, this Agreement and the Release Agreement will become binding documents between you and the Company. If you choose not to timely sign and return both this Agreement and the Release Agreement, or if you sign the agreements but revoke your consent during the Revocation Period, you shall not receive any enhanced severance benefits from the Company.

If you choose not to sign this Agreement by March 17, 2003 or the Release Agreement on the Resignation Date, you shall not receive the enhanced severance benefits described in

Attachment A. You will, however, receive payment for any accrued wages, unused vacation time and any severance payments due pursuant to the terms of the Severance Compensation Law - 1963 that accrued through the Resignation Date. Also, regardless of signing this Agreement or the Release Agreement, you may elect to continue receiving group medical insurance pursuant to the federal "COBRA" law, 29 U.S.C. ss. 1161 et seq. All premium costs shall be paid by you on a monthly basis for as long as, and to the extent that, you remain eligible for COBRA continuation. You should consult the COBRA materials to be provided by the Company for details regarding these benefits. All other benefits, including life insurance and long-term disability insurance, will cease upon the Resignation Date in accordance with the plan documents.

The following paragraphs and attachments set forth the terms and conditions that will apply if you timely sign and return this Agreement by March 17, 2003 and if you sign and return the Release Agreement on the Resignation Date and you do not revoke your consent to either this Agreement or the Release Agreement within the applicable Revocation Period:

1. Resignation Date - Your effective date of resignation from the Company is March 21, 2003.
2. Description of Enhanced Severance Benefits - The enhanced severance benefits to be paid to you if you timely sign and return this Agreement and the Release Agreement and do not revoke your consent to either agreements are described in the "Description of Enhanced Severance Benefits" attached as Attachment A (the "enhanced severance benefits").
3. Release - Subject to the fulfillment of the Enhanced Severance Benefits Agreement by the Company and the release declaration of the Company and in consideration of the payment of the enhanced severance benefits, which you acknowledge you would not otherwise be entitled to receive, you hereby fully, forever, irrevocably and unconditionally release, remise and discharge TriNet Employer Group, Inc. and the Company, including all of their respective officers, directors, stockholders, corporate affiliates, subsidiaries, and parent companies and their respective agents and employees, from any and all claims, charges, complaints, demands, actions, causes of action, suits, rights, debts, sums of money, costs, accounts, reckonings, covenants, contracts, agreements, promises, doings, omissions, damages, executions, obligations, liabilities, and expenses (including attorneys' fees and costs), of every kind and nature that you ever had or now have against TriNet Employer Group, Inc. and the Company, including all of their respective officers, directors, stockholders, corporate affiliates, subsidiaries and parent companies and their respective agents and employees, arising out of your employment with and/or separation from the Company including, but not limited to, all employment discrimination claims under Title VII of the Civil Rights Act of 1964, 42 U.S.C. ss. 2000e et seq., the Americans With Disabilities Act of 1990, 42 U.S.C. ss. 12101 et seq., the Family and Medical Leave Act, 29 U.S.C. ss. 2601 et seq., the Worker Adjustment and Retraining Notification Act ("WARN"), 29 U.S.C. ss. 2101 et seq. and the Rehabilitation Act of 1973, 29 U.S.C. ss. 701 et seq., all as amended, and all claims arising out of the Fair Credit Reporting Act, 15 U.S.C. ss. 1681 et seq., the Employee Retirement Income Security Act of 1974 ("ERISA"), 29 U.S.C. ss. 1001 et seq., the Massachusetts Fair

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Employment Practices Act, M.G.L. c.151B, ss. 1 et seq., the Massachusetts Civil Rights Act, M.G.L. c.12, ss.11H and 11I, the Massachusetts Equal Rights Act, M.G.L. c.93, ss. 102 and M.G.L. c.214, ss. 1C, the Massachusetts Labor and Industries Act, M.G.L. c.149,ss. 1 et seq., the Massachusetts Privacy Act, M.G.L. c.214, ss. 1B, and the Massachusetts Maternity Leave Act, M.G.L. c.149, ss. 105(d), and all relevant laws of the State of Israel, all as amended, all common law claims including, but not limited to, actions in tort, defamation and breach of contract (including all claims alleged under the terms of the Employment Agreement, as defined below), all claims to any non-vested ownership interest in the Company, contractual or otherwise, including, but not limited to, claims to stock or stock options, and any claim or damage arising out of your employment with and/or separation from the Company (including a claim for retaliation) under any common law theory or any federal, state or local statute or ordinance not expressly referenced above; provided, however, that nothing in this Agreement shall prevent you from filing, cooperating with, or participating in a discrimination proceeding before a state or federal Fair Employment Practices Agency or court (except that you acknowledge that you may not recover any monetary benefit in such proceeding unless this Agreement is held invalid by such an agency or court).

4. Non-Disclosure, Non-Competition and Inventions - You acknowledge your obligation to keep confidential all non-public information concerning the Company that you acquired during the course of your employment with the Company, as stated more fully in Sections 8.8 and 8.9 of the Amended Employment Agreement you executed on November 26, 2001 (the "Employment Agreement"), which Sections remain in full force and effect. You further acknowledge and reaffirm your obligations under Sections 8.10 and 9 of the Employment Agreement, including your obligation not to compete with the Company, which also remain in full force and effect.
5. Return of Company Property - You agree to return within seven (7) days of the Resignation Date all Company property including, but not limited to, keys, files, office equipment, passwords, passcodes, computer software (and all copies thereof), and computer hardware, that is in your possession or control. You further agree to leave intact all electronic Company documents, including those that you developed during your employment.
6. Execution of Release Agreement - You agree to execute on the Resignation Date the Release Agreement in the form attached hereto as Attachment B.
7. Resignation from Employment Positions - You hereby confirm that you have resigned from your positions as President and Chief Executive Officer of the Company, as well as from any and all other positions as an officer or director of the Company and any and all of its subsidiaries or affiliates.
8. Non-Disparagement - To the extent not in violation of the law, you understand and agree that as a condition for payment to you of the enhanced severance benefits herein described, you shall not make any false, disparaging or derogatory statements to any media outlet, industry group, financial institution or current or former employee,

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consultant, client or customer of the Company regarding the Company, its subsidiaries and their respective directors, officers, employees, agents or representatives or about the Company's business affairs, financial condition, products and technologies.

9. Amendment - This Agreement, including the Release Agreement, shall be binding upon the parties and may not be modified in any manner, except by an instrument in writing of concurrent or subsequent date signed by duly authorized representatives of the parties hereto. This Agreement and the Release Agreement are binding upon and shall inure to the benefit of the parties and their respective agents, assigns, heirs, executors, successors and administrators.
10. Waiver of Rights - No delay or omission by the either party to this Agreement in exercising any right under this Agreement or the Release Agreement shall operate as a waiver of that or any other right. A waiver or consent given by a party on any one occasion shall be effective only in that instance and shall not be construed as a bar to or waiver of any right on any other occasion. Furthermore, in the event each party breaches any term of this Agreement, including the Release Agreement, the non-breaching party reserves its right to pursue any and all remedies and damages available to it concerning such breach.
11. Validity - Should any provision of this Agreement or the Release Agreement be declared or be determined by any court of competent jurisdiction to be illegal or invalid, the validity of the remaining parts, terms or provisions shall not be affected thereby and said illegal or invalid part, term or provision shall be deemed not to be a part of this Agreement or the Release Agreement, as applicable.
12. Confidentiality - To the extent permitted by law, you understand and agree

that as a condition for payment to you of the enhanced severance benefits herein described, the terms and contents of this Agreement and the Release Agreement, and the contents of the negotiations and discussions resulting in this Agreement and the Release Agreement, shall be maintained as confidential by you and your agents and representatives and shall not be disclosed to any third party except to the extent required by federal or state law or as otherwise agreed to in writing by the Company. You understand and agree that the Company will have to file this Agreement and Release Agreement with appropriate federal agencies.

13. Nature of Agreement - You understand and agree that this Agreement and the Release Agreement is a severance agreement and does not constitute an admission of liability or wrongdoing on the part of the Company.
14. Acknowledgments - You acknowledge that you have been given at least twenty-one (21) days to consider this Agreement, including Attachments A and B, and that the Company advised you to consult with an attorney of your own choosing prior to signing this Agreement and the Release Agreement. You understand that you may change your mind and revoke your assent to the particular agreement during the seven (7) day period after you have signed either agreement by notifying Bob Trachtenberg of your revocation in

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writing, and that the agreements shall not be effective or enforceable until the expiration of this seven (7) day Revocation Period. If you do not revoke your assent to this Agreement or the Release Agreement before the expiration of the applicable Revocation Period, this Agreement and the Release Agreement will become binding documents between you and the Company. You understand and agree that by entering into this Agreement and the Release Agreement, you are waiving any and all rights or claims you might have under The Age Discrimination in Employment Act, as amended by The Older Workers Benefit Protection Act, and that you have received consideration beyond that to which you were previously entitled.

15. Voluntary Assent - You affirm that no other promises or agreements of any kind have been made to or with you by any person or entity whatsoever to cause you to sign this Agreement or the Release Agreement, and that you fully understand the meaning and intent of this Agreement and the Release Agreement. You state and represent that you have had an opportunity to fully discuss and review the terms of this Agreement, including Attachments A and B, with an attorney. You further state and represent that you have carefully read this Agreement, including Attachments A and B, understand the contents herein, freely and voluntarily assent to all of the terms and conditions hereof, and sign your name of your own free act.
16. Applicable Law - This Agreement and the Release Agreement shall be interpreted and construed by the laws of the Commonwealth of Massachusetts, without regard to conflict of laws provisions. You hereby irrevocably submit to and acknowledge and recognize the jurisdiction of the courts of the Commonwealth of Massachusetts, or if appropriate, a federal court located in Massachusetts (which courts, for purposes of this Agreement and the Release Agreement, are the only courts of competent jurisdiction), over any suit, action or other proceeding arising out of, under or in connection with this Agreement, the Release Agreement or the subject matter hereof.
17. Entire Agreement - This Agreement, including Attachments A and B, contains and constitutes the entire understanding and agreement between the parties hereto with respect to your enhanced severance benefits and the settlement of claims against the Company and cancels all previous oral and written negotiations, agreements, commitments, writings in connection therewith. Nothing in this paragraph, however, shall modify, cancel or supersede your obligations set forth in paragraph 4.

If you have any questions about the matters covered in this Agreement or the Release Agreement, please call me. If you choose to execute this Agreement, please return all pages of this Agreement, including Attachments A and B, to me no later than March 17, 2003. You may retain the enclosed copy of the Agreement for your records.

Very truly yours,

By: /s/ Michael S. Weiss

Name: Michael S. Weiss
Title: Chief Executive Officer

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I hereby agree to the terms and conditions set forth above and in Attachments A and B. I have been given at least twenty-one (21) days to consider this Agreement and the Release Agreement and I have chosen to execute this Agreement on the date below. I intend that this Agreement will become a binding agreement between the Company and me if I do not revoke my acceptance within seven (7) days.

/s/ Benjamin Corn

Date 3/17/03

Employee Name: Benjamin Corn, M.D.

To be returned by March 17, 2003.

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ATTACHMENT A

DESCRIPTION OF ENHANCED SEVERANCE BENEFITS

In exchange for your timely execution and non-revocation of this Agreement and the Release Agreement, including the release of claims found therein, the Company agrees to provide you with the following enhanced severance benefits:

For avoidance of any doubt and for clarification purpose, you shall be entitled to receive the following benefits according to Israeli law, in addition to the Enhanced Severance Benefits described herein in sections (a-e) these benefits (1-4) will be paid to you unconditionally, regardless of the Release Agreement:

1. The Company shall pay all your salaries and benefits until March 21, 2003.
2. The Company shall furnish you a notice of release to the insurance company of Bituach Menahalim in your name, which includes severance pay as required by Israeli law.
3. The Company shall furnish you a notice of release of your Keren Hishtalmut.
4. Your last salary payment following the Termination Date shall include a payment for any and all accrued but unused vacation days and the D'mei Havra'ah to which you are entitled.

- (a) Severance Pay - The Company agrees to provide you with severance pay in the amount of one hundred sixty-six thousand six hundred sixty-six dollars and sixty-seven cents (\$166,666.67), less all applicable taxes and withholdings, which is equivalent to eight (8) months of salary continuation at your current annualized base rate of \$250,000 (the

"Severance Pay"). The Severance Pay shall be paid to you over an eight (8) month period in accordance with the Company's normal payroll procedures after this Agreement and the Release Agreement become binding and enforceable.

- (b) Accelerated Vesting - You currently have 100,000 unvested options. Notwithstanding anything to the contrary in the applicable Share Option Plan, effective upon the Resignation Date one hundred percent (100%) of the portion of your option to purchase shares of common stock of the Company that remains unvested as of the Resignation Date shall become immediately vested and exercisable in full.
- (c) Extension of Exercise Period - Notwithstanding anything to the contrary in the applicable Share Option Plan or option agreement, effective upon the Resignation Date the Company shall extend the period during which you may exercise your stock options,

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to the extent such options are fully vested on the Resignation Date after giving effect to the acceleration provided for in paragraph (b) above, until March 21, 2005.

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ATTACHMENT B

RELEASE AGREEMENT

Subject to the fulfillment of the Enhanced Severance Benefits Agreement by the Company and in consideration of the mutual promises set forth herein and in the letter agreement between the parties dated February 23, 2003 (the "Agreement"), which you acknowledge you would not otherwise be entitled to receive, you hereby fully, forever, irrevocably and unconditionally release, remise and discharge TriNet Employer Group, Inc. and the Company, including all of their respective officers, directors, stockholders, corporate affiliates, subsidiaries, and parent companies and their respective agents and employees, from any and all claims, charges, complaints, demands, actions, causes of action, suits, rights, debts, sums of money, costs, accounts, reckonings, covenants, contracts, agreements, promises, doings, omissions, damages, executions, obligations, liabilities, and expenses (including attorneys' fees and costs), of every kind and nature that you ever had or now have against TriNet Employer Group, Inc. and the Company, including all of their respective officers, directors, stockholders, corporate affiliates, subsidiaries and parent companies and their respective agents and employees, arising out of your employment with and/or separation from the Company including, but not limited to, all employment discrimination claims under Title VII of the Civil Rights Act of 1964, 42 U.S.C. ss. 2000e et seq., the Americans With Disabilities Act of 1990, 42 U.S.C. ss. 12101 et seq., the Family and Medical Leave Act, 29 U.S.C. ss. 2601 et seq., the Worker Adjustment and Retraining Notification Act ("WARN"), 29 U.S.C. ss. 2101 et seq. and the Rehabilitation Act of 1973, 29 U.S.C. ss. 701 et seq., all as amended, and all claims arising out of the Fair Credit Reporting Act, 15 U.S.C. ss. 1681 et seq., the Employee Retirement Income Security Act of 1974 ("ERISA"), 29 U.S.C. ss. 1001 et seq., the Massachusetts Fair Employment Practices Act, M.G.L. c.151B, ss. 1 et seq., the Massachusetts Civil Rights Act, M.G.L. c.12, ss.10H and 10I, the Massachusetts Equal Rights Act, M.G.L. c.93, ss. 102 and M.G.L. c.214, ss. 1C, the Massachusetts Labor and Industries Act, M.G.L. c.149, ss. 1 et seq., the Massachusetts Privacy Act, M.G.L. c.214, ss.1B, and the Massachusetts Maternity Leave Act, M.G.L. c.149, ss. 105(d), and all relevant laws of the State of Israel, all as amended, all common law claims including, but not limited to, actions in tort, defamation and breach of contract (including all claims alleged under the terms of the Employment Agreement, as defined in the Agreement), all claims to any non-vested ownership interest in the Company, contractual or otherwise, including, but not

limited to, claims to stock or stock options, and any claim or damage arising out of your employment with and/or separation from the Company (including a claim for retaliation) under any common law theory or any federal, state or local statute or ordinance not expressly referenced above; provided, however, that nothing in this Release Agreement shall prevent you from filing, cooperating with, or participating in a discrimination proceeding before a state or federal Fair Employment Practices Agency or court (except that you acknowledge that you may not recover any monetary benefit in such proceeding unless this Release Agreement is held invalid by such an agency or court).

You acknowledge that you have been given more than twenty-one (21) days to consider this Release Agreement, and that the Company advised you to consult with an attorney of your choosing prior to signing this Release Agreement. You understand that you may change your

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mind and revoke your assent during the seven (7) day period after you have signed this Release Agreement (the "Revocation Period") by notifying Bob Trachtenberg of your revocation in writing, that the Release Agreement shall not be effective or enforceable until the expiration of this seven (7) day Revocation Period, and that no enhanced severance benefits pursuant to the Agreement shall be due to you until the expiration of such Revocation Period. If you do not revoke your assent to this Release Agreement before the expiration of the Revocation Period, the Release Agreement will become binding between you and the Company.

You acknowledge that you have been reimbursed by the Company for all business expenses incurred by you in conjunction with your employment with the Company and that no other reimbursements are owed to you. You further acknowledge that you have been provided with all compensation and benefits due to you as of the date of this Release Agreement, including, but not limited to, any and all wages, expense reimbursements, bonuses and any accrued but unused vacation time, and that you are not entitled to receive any additional consideration beyond that provided for in paragraph 2 of the Agreement.

IN WITNESS WHEREOF, Dr.. Corn has set his hand and seal to this Release Agreement as of the date below.

Benjamin Corn, M.D.

/s/ Benjamin Corn

Date: 3/17/03

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AMENDMENT

This amendment (the "Amendment"), dated March 25, 2003, is being made between Keryx Biopharmaceuticals, Inc., a corporation organized under the laws of the State of Delaware, with offices at 750 Lexington Avenue, New York, New York 10022 ("Keryx"), and Children's Medical Center Corporation, 300 Longwood Avenue, Boston, Massachusetts 02155 ("CMCC").

WHEREAS the parties executed a License Agreement, dated November 12, 1999, pursuant to which, among other things, meet certain development milestones (the "License Agreement"); and

WHEREAS the parties have determined that the proper development and funding of the technology that is the subject of the License Agreement justifies amendments to the clauses addressing the development milestones;

IT IS HEREBY AGREED by and between the parties:

- 1. Article III.B.1 of the License Agreement shall be amended to read as follows:

B. Licensee shall accomplish development of Licensed Products and/or Licensed Processes according to the following timetable:

- 1. file an Initial New Drug Application ("IND") for a Licensed Product with United States Food and Drug Administration ("FDA") or its foreign equivalent in a country with reasonably comparable requirements within forty eight (48) months from the identification of the first lead compound; and
- 2. This Amendment shall not be deemed to alter in any manner any rights and/or obligations of either party except as specifically set forth above.

IN WITNESS WHEREOF, the parties hereto have executed this Amendment, by proper persons duly authorized.

KERYX BIOPHARMACEUTICALS, INC.

CHILDRENS MEDICAL CENTER CORPORATION

By: /s/ Michael S. Weiss

By: /s/ Donald P. Lombardi

Name: Michael S. Weiss

Name: Donald P. Lombardi

Title: Chief Executive Officer

Title: Chief Intellectual Property
Officer

List of Subsidiaries of Keryx Biopharmaceuticals, Inc.

Keryx Securities Corp. (Massachusetts)

Keryx Biomedical Technologies Ltd. (Israel)

Keryx (Israel) Ltd. (Israel)

Independent Auditors' Consent

The Board of Directors
Keryx Biopharmaceuticals, Inc.:

We consent to the incorporation by reference in the registration statement on Form S-8 of Keryx Biopharmaceuticals, Inc. of our report dated March 26, 2003, with respect to the consolidated balance sheets of Keryx Biopharmaceuticals, Inc. and subsidiaries as of December 31, 2002 and 2001, and the related consolidated statements of operations, stockholders' equity and cash flows, for each of the years in the three-year period ended December 31, 2002, and all related financial statement schedules, which report appears in the December 31, 2002, annual report on Form 10-K of Keryx Biopharmaceuticals, Inc.

Somekh Chaikin

Certified Public Accountants (Isr.)
A member firm of KPMG International

Jerusalem, Israel
March 26, 2003

CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the annual report on Form 10-K of Keryx Biopharmaceuticals, Inc. (the "Company") for the period ended December 31, 2003, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), the undersigned, Michael S. Weiss, Chief Executive Officer of the Company, hereby certifies, pursuant to 18 U.S.C. Section 1350, that:

(a) the Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and

(b) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

/s/ Michael S. Weiss

Dated: March 31, 2003

Michael S. Weiss
Chief Executive Officer
(Principal Executive Officer)

CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the annual report on Form 10-K of Keryx Biopharmaceuticals, Inc. (the "Company") for the period ended December 31, 2003, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), the undersigned, Ira Weinstein, Interim Chief Financial Officer of the Company, hereby certifies, pursuant to 18 U.S.C. Section 1350, that:

(a) the Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and

(c) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

/s/ Ira Weinstein

Dated: March 31, 2003

Ira Weinstein
Interim Chief Financial Officer
(Principal Financial and Accounting
Officer)