

UNITED THERAPEUTICS CORP

Form 10-K405

March 20, 2002

Securities and Exchange Commission
Washington, DC 20549
Form 10-K

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

For the fiscal year ended December 31, 2001

OR

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

For the transition period from to

Commission File Number 0-26301

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

| | |
|--|--|
| Delaware | 52-1984749 |
| _____ (State or Other Jurisdiction of Incorporation or Organization) | _____ (IRS Employer Identification No.) |
| 1110 Spring Street Silver Spring, MD | 20910 |
| _____ (Address of principal executive offices) | _____ (zip code) |

Registrant's telephone number, including area code: (301) 608-9292

Securities registered under Section 12(b) of the Exchange Act:
None.

Securities registered under Section 12(g) of the Exchange Act:
Common Stock, par value \$.01 per share
and associated preferred stock purchase rights
(Title of Class)

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 definitive proxy or information statements incorporated by reference in PART III of this Form 10-K or any amendment to this Form 10-K.

The number of shares outstanding of the registrant's Common Stock, par value \$0.01 per share, as of March 13, 2002 was 20,225,200 shares. The aggregate market value of the Common Stock held by non-affiliates of the registrant, based on the average bid and asked prices on March 13, 2002 as reported by the Nasdaq National Market was approximately \$243.2 million.

DOCUMENTS INCORPORATED BY REFERENCE

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Portions of the registrant's definitive proxy statement for the registrant's 2002 annual shareholders meeting are incorporated by reference in Part III of this Form 10-K.

PART I

ITEM 1. BUSINESS

United Therapeutics is a biotechnology company focused on chronic and life-saving therapeutics. United Therapeutics is active in three therapeutic areas cardiovascular medicine, infectious disease and oncology with four therapeutic platforms prostacyclin analogs, arginine formulations, telemedicine and iminosugars.

Most of United Therapeutics resources are focused on its analogs of the endogenous hormone prostacyclin for the treatment of pulmonary hypertension, peripheral vascular disease and metastatic cancer. United Therapeutics second principal focus is the development of iminosugar compounds for the treatment of hepatitis B and C. United Therapeutics also devotes resources to the commercialization and further development of arginine therapy, especially in coronary artery disease, and of telecardiology, principally for cardiac arrhythmia.

United Therapeutics was incorporated in June 1996 in Delaware under the name Lung Rx, Inc. The company changed its name to United Therapeutics Corporation in December 1997.

United Therapeutics Products

The following table summarizes United Therapeutics product portfolio.

| Product | Mode of Delivery | Indication/Market | Current Status | UT Territory |
|--|---------------------------|------------------------------------|--|---------------------|
| CardioPAL® and PM-350 | Telemedical | Arrhythmia and Angina | Commercial | Worldwide |
| Arginine Supplements | Medical foods | Cardiovascular Disease | Launching | Worldwide |
| Remodulin | Continuous Subcutaneous | Pulmonary arterial hypertension | US Approval Pending/EU Reviews Ongoing | Worldwide |
| Remodulin | Intermittent Subcutaneous | Critical limb ischemia | Phase II/III | Worldwide |
| Remodulin | Periodic Subcutaneous | Metastatic cancer | Phase I | Worldwide |
| Beraprost Immediate Release | Oral | Metastatic cancer | Phase I | U.S./Canada |
| UT231B | Oral | Hepatitis C | Preclinical | Worldwide |
| Iminosugar Platform | Oral | Hepatitis B | Preclinical | Worldwide |
| R7V Platform | Vaccine | Human immunodeficiency virus (HIV) | Preclinical | Worldwide |
| UT-15 Sustained Release/ Beraprost Sustained Release | Oral | Peripheral vascular disease | Preclinical | U.S./Canada |
| Unipeg | Inhalation/Oral | Cardiovascular | Preclinical | Worldwide |
| ADMA Diagnostic | Diagnostic test | Cardiovascular disease | Preclinical | Worldwide |
| Epicardia Auto-Trigger | Telemedical | Cardiac arrhythmia | Preclinical | Worldwide |

Remodulin

In December 1996 and January 1997, United Therapeutics obtained worldwide rights for all indications to Remodulin (also known as UT-15 and formerly known as Uniprost), a prostacyclin analog, from Glaxo Wellcome, Inc. and Pharmacia & Upjohn Company. In October 1999, United Therapeutics acquired all the outstanding stock of SynQuest, Inc., the manufacturer of treprostinil, the bulk active ingredient in Remodulin.

Pulmonary Arterial Hypertension

United Therapeutics has focused primarily on developing Remodulin as its lead product for treating pulmonary arterial hypertension. Pulmonary arterial hypertension is a vascular disease, which affects the blood vessels between the heart and lungs known as the pulmonary blood vessels. Pulmonary arterial hypertension is characterized by the degradation of the blood-vessel wall lining, the aggregation of platelets and the disruption of smooth muscle cell function. These conditions cause blockages and affect the ability of the blood vessels to dilate and then constrict as blood flows to the lungs. The resulting elevated pulmonary blood pressure causes increasing strain on the right side of the heart as it tries to pump blood to the lungs.

Pulmonary arterial hypertension is associated with reduced production of the natural compound prostacyclin in the pulmonary blood vessels. Prostacyclin appears to dilate blood vessels where necessary, prevent platelet aggregation, and prevent proliferation of smooth muscle cells surrounding the vessels. The only currently FDA-approved prostacyclin for pulmonary arterial hypertension is Flolan®, an artificial form of prostacyclin delivered continuously by an external pump through a surgically implanted intravenous catheter. It is approved for use in certain subsets of late-stage pulmonary arterial hypertension. Remodulin is a significantly longer lived and more stable synthetic form of prostacyclin which United Therapeutics believes will provide patients with a convenient and non-intravenous life-long prostacyclin therapy.

In contrast to Flolan, Remodulin is stable at room temperature and is significantly longer lived in the human body. These attributes allow for safer and more convenient delivery of Remodulin to patients. Specifically, Remodulin is delivered by subcutaneous infusion with a pager-sized microinfusion device made by Medtronic MiniMed, Inc. Subcutaneous delivery of Remodulin also eliminates the risk of sepsis infection and related hospitalization associated with the Flolan catheter. Remodulin's extended life in the body also greatly reduces the risk of death, from an abrupt recurrence of hypertension known as rebound hypertension when treatment is interrupted. The stability of Remodulin also allows it to be prepackaged, thus eliminating the need to reconstitute the drug one or more times daily under completely sterile conditions, as is required with Flolan.

Recently, the FDA approved Tracleer, an oral treatment for patients with certain subsets of late-stage pulmonary arterial hypertension. Tracleer is the first drug in a class of drugs known as endothelin antagonists. Endothelin constricts blood vessels and is elevated in patients with pulmonary arterial hypertension. Many leading experts in pulmonary arterial hypertension believe that Tracleer or other endothelin antagonists may in the future be used in combination with Remodulin or Flolan since these drugs provide symptomatic relief in different ways and might complement each other to treat these seriously ill patients.

In March 2000, United Therapeutics completed an international, randomized, placebo-controlled, double-blind study of Remodulin involving a total of 470 patients with pulmonary arterial hypertension. Half of the patients received Remodulin subcutaneously for 12 weeks, while the other half received a placebo. The study data show that patients who received Remodulin had significant improvement in exercise capacity, pulmonary blood pressure and in the signs and symptoms of the disease. All patients in the pivotal study had the option to continue or commence Remodulin in an open-label study after completion of the 12-week study. Approximately 500 patients are now being treated with the drug, including additional patients who enrolled directly into the open-label study.

The nonclinical and manufacturing portions of the New Drug Application (NDA) for Remodulin were filed on August 14, 2000 with the U.S. Food and Drug Administration (FDA). On October 16, 2000, United Therapeutics filed the remaining sections of the NDA for Remodulin and was notified that the FDA's pre-approval inspection of United Therapeutics' manufacturing facility was successfully completed. On October 19, 2000, the FDA informed United Therapeutics that a six-month Priority Review had been granted for the NDA. The FDA's review was ultimately extended until February 2002.

On August 9, 2001, the FDA's Cardiovascular and Renal Drugs Advisory Committee voted 6 to 3 to recommend that Remodulin be approved. On February 8, 2002, the FDA determined that Remodulin was approvable for the indication of pulmonary arterial hypertension for patients with NYHA class II-IV symptoms. Final approval is conditioned on the FDA's acceptance of the product label and United Therapeutics' agreement to a post marketing Phase IV clinical study to further assess the clinical benefits of Remodulin. United Therapeutics has agreed to perform the post marketing Phase IV clinical study design and is currently discussing the content of the study protocol and product label with the FDA. Once approved, Remodulin will be the only drug that may be prescribed for all disease subsets of symptomatic pulmonary arterial hypertension. Furthermore, it will be the only pulmonary arterial hypertension treatment indicated for patients with NYHA class II (early-stage) symptoms.

In February 2001, United Therapeutics submitted a Marketing Authorization Application in France for approval of Remodulin for pulmonary arterial hypertension. In October 2001, United Therapeutics submitted a Marketing Authorization Application in Switzerland for approval of Remodulin for pulmonary arterial hypertension. Also, in December 2001, United Therapeutics submitted a New Drug Submission (NDS) in Canada for approval of Remodulin for pulmonary arterial hypertension. The NDS in Canada was accepted for filing in February 2002 and was granted priority review status. Each of these foreign reviews is pending.

Peripheral Vascular Disease/Critical Limb Ischemia

United Therapeutics is also developing Remodulin for late-stage peripheral vascular disease known as critical limb ischemia. Peripheral vascular disease is a vascular disease that affects the blood vessels in the legs. While the precise cause of peripheral vascular disease is unknown, diabetes, obesity, smoking and lack of exercise are associated with the disease. Peripheral vascular disease appears to be similar to pulmonary hypertension in that there is a reduction in natural prostacyclin in the affected blood vessels. In September 1998, United Therapeutics completed a Phase II study which assessed the safety and blood flow effects of Remodulin administered intravenously to patients with critical limb ischemia. The study demonstrated that Remodulin can be administered safely to patients with critical limb ischemia and that Remodulin substantially increased blood flow in the affected areas of the legs. United Therapeutics is planning a Phase II/III clinical study of Remodulin for critical limb ischemia to commence in 2002.

Metastatic Cancer

United Therapeutics has tested the anti-cancer capabilities of Remodulin in laboratory experiments. These in vitro studies showed that Remodulin has an anti-metastatic effect at the same dose as is given to pulmonary hypertension patients. In addition, there are many published reports of the anti-cancer effects of various analogs of the prostacyclin molecule. Much of the excitement regarding prostacyclin as an anti-cancer molecule has to do with prostacyclin's ability to block an endothelial cell receptor (called the PRAR receptor) which is believed to be needed for tumor growth. Given the potency of Remodulin, and its relative ease of use, United Therapeutics believes there may be anti-cancer potential in this lead United Therapeutics product. United Therapeutics is planning a Phase I study of Remodulin for metastatic cancer. The study is expected to commence in 2002 as no further animal studies are required.

Unipeg

In September 1999, United Therapeutics entered into an agreement with Shearwater Polymers, Inc., now a subsidiary of Inhale Therapeutics Systems, Inc. This agreement grants to United Therapeutics the exclusive right to Shearwater's know-how for the design, development, production and use of a technology known as pegylation to develop and produce sustained release Remodulin for the possible treatment of pulmonary hypertension, peripheral vascular disease, stroke, heart disease, cancer, and related diseases worldwide. During 2000, Shearwater and United Therapeutics achieved pegylation of the Remodulin molecule. It is expected that this pegylation product, known as Unipeg, would be delivered via inhalation. Unipeg is currently in the preclinical phase of development.

Arginine and ADMA

In December 2000, United Therapeutics expanded into the fields of angina and coronary artery disease when it acquired the assets and certain liabilities of Cooke Pharma, Inc., the exclusive manufacturer of the HeartBar® line of arginine products that is now operated as Unither Pharma, Inc. HeartBar is the first and only medical food to promote cardiovascular health. Medical foods are regulated by the FDA. Unither Pharma is the only company that owns the

patent rights to use HeartBar's key ingredient, arginine, for cardiovascular conditions. Although arginine is broadly sold as a nutritional supplement in pill form, there are no existing arginine products, other than HeartBar, that deliver sufficient levels of arginine to achieve a therapeutic benefit. The HeartBar, which is included in the Physicians Desk Reference, increases the relaxing effect of nitric oxide produced by blood vessels. This produces relief from the symptoms of cardiovascular disease by increasing the diameter of blood vessels and thereby increasing blood flow. Clinical studies have demonstrated the ability of the HeartBar to reduce painful symptoms of cardiovascular disease, increase exercise tolerance and improve the quality of life. One HeartBar per day delivers 6 grams of arginine. The HeartBar Sport formulation delivers 3 grams of arginine. HeartBar products are sold in seven flavors and four formulations.

Recent studies show that people with high levels of another molecule called asymmetric dimethylarginine (ADMA) may be at especially high risk of heart disease. ADMA actually blocks the conversion of arginine to nitric oxide, which is even worse on the body than the effect of not ingesting enough arginine in the first place. In December 2001, United Therapeutics acquired the exclusive worldwide rights to develop a blood test to measure a person's ADMA levels, much like a cholesterol test. As most people age, their blood pressure rises as endothelial dysfunction gradually sets in. While it is not a cure for the problems of advancing age, arginine supplementation is an excellent way to achieve dietary management of cardiovascular risk at any age. This is particularly true for those persons with genetically determined high levels of ADMA.

Telemedicine Services

Pulmonary hypertension patients require periodic monitoring of certain bodily measurements such as heart and lung function. Much of this monitoring can be achieved with less expense and inconvenience by using telemedicine devices that enable physicians to monitor patients remotely. United Therapeutics intends to provide telemedicine services for a fee to patients and physicians using and prescribing United Therapeutics' products.

In December 2000, United Therapeutics expanded into arrhythmia and ischemic monitoring by acquiring all the assets of Medicomp, Inc. and Telemedical Procedures, LLC, related telemedicine companies based in Florida that are now operated as Medicomp, Inc. Medicomp, Inc. provides cardiac holter and event monitoring analysis services remotely via telephone lines and the Internet to expert technicians at its cardiac monitoring center. These services are designed to address the needs of patients suspected of suffering from cardiac arrhythmias and other abnormalities such as ischemic events and are delivered via Medicomp's proprietary PM 350 Holter Monitor and CardioPAL® event recorder. Cardiac arrhythmias and ischemic heart disease afflict an estimated 20 million Americans, and possibly ten times that number worldwide. If left undetected and untreated, these conditions can result in heart attacks and death. Treatment of cardiac arrhythmias and ischemia with pharmaceuticals requires careful titration based upon life-long repeat cardiac monitoring.

Iminosugars

In March 2000, Unither Pharmaceuticals, Inc., a wholly owned subsidiary of United Therapeutics, entered into a license agreement with Synergy Pharmaceuticals, Inc. to obtain from Synergy the exclusive worldwide rights to certain patents relating to anti-viral compounds. These compounds are iminosugars, a class of small molecules, which may be effective as an oral therapy for hepatitis B and C infections, as well as dengue and Japanese encephalitis virus. The compounds are currently in late stages of preclinical testing. An Investigational New Drug Application (IND) is expected to be submitted for the first iminosugar compound, UT231B, in 2002. It is anticipated that a Phase I proof of concept study in patients with hepatitis C will commence in 2002.

Preventis

In 1999, United Therapeutics co-founded Preventis, Inc. to develop vaccines and anti-microbial drugs for the treatment and prevention of infectious diseases. Preventis holds a co-exclusive license from the French Health Research agency, INSERM, in a patent currently being used to develop an HIV vaccine. Preventis also has exclusive rights to patents relating to vaccine manufacture and urinary tract infections. Preventis current projects involve the development of a therapeutic HIV/AIDS vaccine and the development of a vaccine to prevent bladder and kidney infections known as urinary tract infections. Preventis' therapeutic HIV/AIDS vaccine has already demonstrated specific antibody response in preclinical animal studies. Preventis is planning to commence human trials outside of the United States in 2002. Crucial to the development of an effective HIV vaccine is a drug that targets all twelve strains of the virus. Preventis believes that it has identified a universal characteristic of HIV and is targeting that element. For this reason, Preventis is pursuing the

development of both a therapeutic and a preventive vaccine for the treatment of HIV globally. United Therapeutics owns approximately 28 percent of Preventis, Inc.

Beraprost

Beraprost is an oral form of prostacyclin that is chemically stable. Like natural prostacyclin and Remodulin, beraprost dilates blood vessels, prevents platelet aggregation and prevents proliferation of smooth muscle cells surrounding blood vessels. United Therapeutics believes that beraprost may be an important treatment for early-stage peripheral vascular disease and for early-stage pulmonary hypertension. Intermittent oral doses of immediate release beraprost do not, however, provide consistent levels of the drug in the blood necessary to treat advanced stages of pulmonary hypertension or peripheral vascular disease. In cancer, it is believed that prostacyclins block an endothelial cell receptor (PRAR receptor) which is considered necessary for tumor growth.

In September 1998, United Therapeutics obtained an exclusive license from Toray Industries, Inc. for the immediate release formulation of beraprost for the treatment of pulmonary hypertension in the United States and Canada. In March 1999, United Therapeutics obtained an additional exclusive license from Toray for the immediate release formulation of beraprost for the treatment of peripheral vascular disease in the United States and Canada. In June 2000, United Therapeutics obtained from Toray the exclusive right to develop and market beraprost in the sustained release formulation (beraprost SR) in the United States and Canada for the treatment of all vascular indications (including cardiovascular indications). In 2002, United Therapeutics expects to obtain from Toray the exclusive right to develop and market Beraprost formulations in the United States and Canada for the treatment of oncological and respiratory conditions.

United Therapeutics conducted a Phase III clinical trial program for beraprost to treat early-stage peripheral vascular disease. The results were analyzed in October 2001. Beraprost did not meet its primary endpoint of improvement in total walking distance. As a result, United Therapeutics discontinued development of the immediate release formulations of Beraprost for early stage peripheral vascular disease and pulmonary arterial hypertension. United Therapeutics hopes that the sustained release formulation will demonstrate greater efficacy. The sustained release formulation is currently in Phase I testing in Japan.

The Medtronic MiniMed Strategic Alliance

Medtronic MiniMed Inc. has agreed to provide its pager-sized microinfusion pump for delivery of Remodulin continuously and subcutaneously. United Therapeutics entered into an agreement with MiniMed, Inc. (now Medtronic MiniMed) in September 1997, which was implemented in a detailed set of guidelines adopted in November 1999 and in October 2001, to collaborate in the design, development and implementation of therapies to treat pulmonary hypertension utilizing MiniMed products and Remodulin. The guidelines require United Therapeutics to purchase its Remodulin infusion pumps exclusively from Medtronic MiniMed at a discount to MiniMed list prices unless MiniMed's infusion pumps fail to receive certain government approvals. The term of the agreement commenced on September 3, 1997 and continues for seven years after the FDA grants a new drug approval for Remodulin. The agreement will be automatically extended for additional 12-month periods unless otherwise terminated. The agreement is subject to early termination in the event of a material breach or bankruptcy of either party. In the event that there are any discoveries or improvements arising out of work performed under the agreement, the parties will have joint ownership of those discoveries or improvements. United Therapeutics and MiniMed have established a Management Committee comprised of two representatives from each company to implement the agreement.

Priority Healthcare and Gentiva Health Services Strategic Alliances

To provide for marketing, promotion and distribution of Remodulin in the United States, United Therapeutics entered into non-exclusive distribution agreements with Priority Healthcare Corporation and Gentiva Health Services, Inc. on February 9, 2000 and March 21, 2000, respectively. In August 2001, Gentiva announced its intention to sell its pharmacy distribution division (including Remodulin distribution) to Accredo Health, Inc. Under the distribution agreements, United Therapeutics will sell Remodulin and MiniMed products to Priority and Gentiva at a discount from an average wholesale price recommended by United Therapeutics. Priority and Gentiva will be responsible for assisting patients with obtaining reimbursement and other support services. The terms of the agreements commenced on signing and continue for two years following FDA approval of Remodulin in the case of Priority and three years following the launch of Remodulin in the case of Gentiva. The agreements will be automatically renewed thereafter for additional two-

year periods in the case of Priority and one-year periods in the case of Gentiva unless one party provides notice of termination. The agreements are subject to early termination in the event of a material breach or bankruptcy of either party or upon 180-day advance notice of termination.

Patents And Proprietary Rights

United Therapeutics' success will depend in part on its ability to obtain and maintain patent protection for its products, preserve trade secrets, prevent third parties from infringing upon its proprietary rights and operate without infringing upon the proprietary rights of others, both in the United States and internationally.

Glaxo Wellcome Assignment

In January 1997, Glaxo Wellcome Inc. assigned to United Therapeutics patents and patent applications for the use of the stable prostacyclin analog known as UT-15, now known as Remodulin, for the treatment of pulmonary hypertension and congestive heart failure. For pulmonary hypertension, the patent does not expire in the United States until October 2009 and until various dates from September 2009 to August 2013 in nine other countries. For congestive heart failure, the patent does not expire until May 2011 in the United States and from May 2011 to March 2012 in five other countries.

Shearwater Polymers, Inc. Agreement

In September 1999, United Therapeutics entered into an agreement with Shearwater Polymers, Inc. (now a subsidiary of Inhale Therapeutic Systems, Inc.). This agreement grants to United Therapeutics the exclusive right to Shearwater's know-how for the design, development, production and use of a technology known as pegylation to develop and produce sustained release prostacyclin molecules for the possible treatment of pulmonary hypertension, peripheral vascular disease, stroke, heart disease, cancer, and related diseases worldwide, known as Unipeg.

Under United Therapeutics' agreement with Shearwater, any inventions that relate to the combination of prostacyclin and the pegylation technology, including Unipeg for the treatment of any disease or condition, will be owned solely by United Therapeutics, and any inventions relating to non-prostacyclin pegylation methods such as drug formulation or delivery will be owned solely by Shearwater. Both United Therapeutics and Shearwater have filed for U.S. patent applications relating to their respective inventions and each is responsible for prosecuting and maintaining its patent portfolio. The licensed technology has thus far resulted in one issued patent in the United States that expires in 2020 and several pending patent applications owned by United Therapeutics.

Synergy Pharmaceuticals, Inc.

In March 2000, Unither Pharmaceuticals, Inc. (Unither), a wholly owned subsidiary of United Therapeutics, entered into a license agreement with Synergy Pharmaceuticals, Inc. (Synergy) to obtain from Synergy the exclusive worldwide rights to certain patents relating to anti-viral compounds known as iminosugars. The compounds are currently in late stages of preclinical testing, and are the subject of a combination of issued patents and pending applications in the United States and around the world. The issued patents have expiration dates ranging from 2008 to 2017. Additional inventions relating to the compounds may be owned jointly by Synergy and United Therapeutics or individually, depending on the source of the invention.

In November 2000, Unither and Synergy amended the exclusive license agreement to include the development of new analogs of the licensed compounds. As part of this amendment, Unither agreed to directly assume Synergy's role in funding ongoing research being conducted by the University of Oxford into analogs of the anti-viral compounds being developed by Unither and Synergy. United Therapeutics will receive an exclusive license from the University of Oxford to all inventions arising from such research.

Stanford University and New York Medical College Licenses

In 2000, United Therapeutics' newly created subsidiary, Unither Pharma, Inc. (formerly Cooke Pharma, Inc.), acquired the exclusive license to patents related to amino acid based dietary supplements to enhance the level of endogenous nitric oxide in the vascular system from Stanford University and New York Medical College. The licenses

cover worldwide territories and are valid for the life of the patents (ranging from 2010 to 2018). Unither Pharma will own all rights to all new products that may be or are derived from these licenses, including Unither Pharma's HeartBar products.

Patent Term Extensions

United Therapeutics believes that some of the patents to which it has rights may be eligible for extensions of up to five years based upon patent term restoration procedures in Europe and in the United States under the Waxman-Hatch Act. For instance, under Waxman-Hatch, the U.S. patents relating to Remodulin could be extended by up to five years, giving the product patent protection until as late as October 2014 if approval in the United States is received before expiration of the original patent term. In addition, patent extensions are available under similar laws in Europe. United Therapeutics is considering which patents it will seek to extend under Waxman-Hatch and similar laws of other jurisdictions. See Government Regulation.

Orphan Drug Status

The FDA has approved the orphan designation for Remodulin for the treatment of pulmonary arterial hypertension, a designation that includes both primary pulmonary hypertension and advanced secondary pulmonary hypertension.

Clinical Investigator Network

United Therapeutics has established a multi-center clinical investigation network with approximately 100 leading medical centers. This network consists of pulmonologists and cardiologists from centers in North America, Europe, Australia and Israel who collectively treat a majority of patients with primary pulmonary hypertension, a substantial number of patients with secondary pulmonary hypertension as well as patients with peripheral vascular disease. These physicians understand and have extensive experience in clinical research of severe pulmonary and vascular diseases. United Therapeutics is continually expanding its clinical investigator network by adding professionals who have demonstrated success in conducting clinical research required for regulatory approval.

Research & Development Expenditures

United Therapeutics is engaged in research and development and has incurred substantial expenses for these activities. These activities generally include the cost of acquiring or inventing new technologies and products as well as their development. Research and development expenses during 2001, 2000 and 1999 totaled approximately \$32.6 million, \$70.2 million and \$30.7 million, respectively.

Manufacturing and Supply

United Therapeutics manufactures treprostinil, the bulk active ingredient in Remodulin, and has contracted with Toray Industries, Inc. to produce beraprost.

Baxter Healthcare Corporation (formerly Cook Imaging Corporation) continues to formulate Remodulin for United Therapeutics. An analytical testing laboratory, Magellan Laboratories Inc., tests the purity and stability of each batch of manufactured Remodulin for compliance with FDA standards.

HeartBar is manufactured by a contract nutritional food manufacturer in California, Nellson Nutraceuticals. Holter and event monitors are manufactured by Medicomp at its facility in Florida.

There are a limited number of companies which could replace these manufacturers and suppliers. However, a change in supplier or manufacturer could cause a delay in the manufacture, distribution and research efforts associated with the respective product.

Marketing And Sales

In accordance with the implementation of United Therapeutics' strategic alliance with Medtronic MiniMed, United

Therapeutics and Medtronic MiniMed will jointly handle aspects of distribution of the Remodulin therapy. United Therapeutics will have primary sales and marketing responsibility. United Therapeutics' marketing strategy will rely upon existing chronic care specialty pharmacy distributors to handle doctor and patient requests for Remodulin on a non-exclusive basis in the United States. To further this strategy, United Therapeutics has entered into two non-exclusive distributor agreements with Gentiva Health Services, Inc. and Priority Healthcare Corporation for the United States. See "Priority Healthcare and Gentiva Health Services Strategic Alliances" above. These specialty distributors are experienced in the sale, distribution and reimbursement of chronic therapies. Outside of the United States, United Therapeutics has entered into six exclusive distributor agreements covering Canada, Europe, Australia, South America and Israel. United Therapeutics will sell Remodulin and MiniMed products to its distributors in the United States and Canada at a discount from an average wholesale price suggested by United Therapeutics and to its international distributors at a transfer price set by United Therapeutics. The distributors will be responsible for assisting patients with obtaining reimbursement. During 2001, approximately \$1.1 million of revenues were earned from the resale of Minimed pumps and supplies to distributors.

Presently, HeartBar is marketed directly to consumers via independent distributors and the Internet.

Holter and event monitor analysis services and systems are marketed to physicians, hospitals, and managed care providers directly by Medicomp's internal sales force. During 2001, approximately \$2.8 million of revenues were earned from the sales of telemedicine services and systems.

During 2001, approximately \$801,000 of revenues was earned from the sales of chemical synthesis and manufacturing services.

Competition

Many drug companies engage in research and development to commercialize products to treat cardiovascular, infectious and oncological diseases. United Therapeutics is aware of two existing treatments already approved for certain subsets of late-stage pulmonary arterial hypertension with which Remodulin will have to compete. One is Flolan, an intravenously delivered prostacyclin. The other is Tracleer, an oral endothelin antagonist, and additional endothelin antagonists are being developed. In addition, competitors may develop and commercialize additional products that compete with United Therapeutics' products and may do so more rapidly than United Therapeutics.

Many companies market or are developing products which will compete with HeartBar in the cardiovascular health market. However, only HeartBar products may claim that its active ingredient, arginine, improves cardiovascular health.

Holter and event monitor analysis services and systems are provided by many local and regional competitors and a few national competitors.

United Therapeutics competes with all of these competitors for funding, access to licenses, personnel, third-party collaborators, product development and commercialization. Almost all of these companies have substantially greater financial, marketing, sales, distribution and technical resources, and more experience in research and development, product development and marketing, clinical trials and regulatory matters, than United Therapeutics.

Governmental Regulation

The research, development, testing, manufacture, promotion, marketing and distribution of drug products are extensively regulated by government authorities in the United States and other countries. Drugs are subject to rigorous regulation by the FDA in the United States and similar regulatory bodies in other countries. The steps ordinarily required before a new drug may be marketed in the United States, which are similar to steps required in most other countries, include:

Preclinical laboratory tests, preclinical studies in animals and formulation studies and the submission to the FDA of an investigational new drug application for a new drug;

Adequate and well-controlled clinical trials to establish the safety and efficacy of the drug for each indication;

The submission of a new drug application to the FDA; and

FDA review and approval of the new drug application prior to any commercial sale or shipment of the drug.

Preclinical tests include laboratory evaluation of product chemistry, toxicity and formulation, as well as animal studies. The results of preclinical testing are submitted to the FDA as part of an investigational new drug application. A 30-day waiting period after the filing of each investigational new drug application is required prior to the commencement of clinical testing in humans. At any time during this 30-day period or at any time thereafter, the FDA may halt proposed or ongoing clinical trials until the FDA authorizes trials under specified terms. The investigational new drug application process may be extremely costly and substantially delay development of United Therapeutics products. Moreover, positive results of preclinical tests will not necessarily indicate positive results in clinical trials.

Clinical trials to support new drug applications are typically conducted in three sequential phases, but the phases may overlap. During Phase I, the initial introduction to the drug into healthy human subjects or patients, the drug is tested to assess metabolism, pharmacokinetics and pharmacological actions and safety, including side effects associated with increasing doses. Phase II usually involves studies in a limited patient population to:

Assess the efficacy of the drug in specific, targeted indications;

Assess dosage tolerance and optimal dosage; and

Identify possible adverse effects and safety risks.

If a compound is found to be potentially effective and to have an acceptable safety profile in Phase II evaluations, Phase III trials, also called pivotal studies, major studies or advanced clinical trials, are undertaken to further demonstrate clinical efficacy and to further test for safety within an expanded patient population at geographically dispersed clinical study sites.

After successful completion of the required clinical testing, generally a new drug application is submitted. The FDA may request additional information before accepting a new drug application for filing, in which case the application must be resubmitted with the additional information. Once the submission has been accepted for filing, the FDA has 180 days to review the application and respond to the applicant. The review process is often significantly extended by FDA requests for additional information or clarification. The FDA may refer the new drug application to an appropriate advisory committee for review, evaluation and recommendation as to whether the application should be approved, but the FDA is not bound by the recommendation of an advisory committee.

If FDA evaluations of the new drug application and the manufacturing facilities are favorable, the FDA may issue either an approval letter or an approvable letter. An approvable letter will usually contain a number of conditions that must be met in order to secure final approval of the new drug application and authorization of commercial marketing of the drug for certain indications. The FDA may refuse to approve the new drug application or issue a not approvable letter, outlining the deficiencies in the submission and often requiring additional testing or information.

The FDA may designate a product as an orphan drug if the drug is a drug intended to treat a rare disease or condition. A disease or condition is considered rare if it affects fewer than 200,000 people in the United States, or if it affects more than 200,000 people but will be sold for less money than it will cost to develop. If a sponsor obtains the first FDA marketing approval for a certain orphan drug, the sponsor will have a seven-year exclusive right to market the drug for the orphan indication.

If regulatory approval of Remodulin or any of United Therapeutics other products is granted, it will be limited to certain disease states or conditions. The manufacturers of approved products and their manufacturing facilities will be subject to continual review and periodic inspections. In addition, identification of certain side effects or the occurrence of manufacturing problems after any of its drugs are on the market could cause subsequent withdrawal of approval, reformulation of the drug, additional preclinical testing or clinical trials, and changes in labeling of the product.

The Waxman-Hatch Act provides that patent terms may be extended during the FDA regulatory review period for

the related product. This period is generally one-half the time between the effective date of an investigational new drug application and the submission date of a new drug application, plus the time between the submission date of a new drug application and the approval of that application, subject to a maximum extension of five years. Similar patent term extensions are available under European laws.

Outside the United States, United Therapeutics' ability to market its products will also be contingent upon receiving marketing authorizations from the appropriate regulatory authorities. The foreign regulatory approval process may include some or all of the risks associated with FDA approval set forth above. The requirements governing the conduct of clinical trials and marketing authorization vary widely from country to country. At present, foreign marketing authorizations are applied for at a national level, although within Europe procedures are available to companies wishing to market a product in more than one European Union (EU) member state.

Under a new regulatory system in the EU, marketing authorizations may be submitted to a centralized, a decentralized or a national level process. The centralized procedure is mandatory for the approval of biotechnology products and high technology products and available at the applicant's option for other products. The centralized procedure provides for the grant of a single marketing authorization that is valid in all EU member states. The decentralized procedure is available for all medicinal products that are not subject to the centralized procedure. The decentralized procedure provides for mutual recognition of national approval decisions, changes existing procedures for national approvals and establishes procedures for coordinated EU actions on products, suspensions and withdrawals. Under this procedure, the holder of a national marketing authorization for which mutual recognition is sought may submit an application to one or more EU member states, certify that the dossier is identical to that on which the first approval was based or explain any differences and certify that identical dossiers are being submitted to all member states for which recognition is sought. Within 90 days of receiving the application and assessment report, each EU member state must decide whether to recognize approval. The procedure encourages member states to work with applicants and other regulatory authorities to resolve disputes concerning mutual recognition. Lack of objection of a given country within 90 days automatically results in approval of the EU country. Following receipt of marketing authorization in a member state, United Therapeutics would then engage in pricing discussions and negotiations with the prescription pricing authority in that country.

United Therapeutics intends to secure European regulatory approval for the use of Remodulin for pulmonary hypertension under the decentralized procedure and filed its first Marketing Authorization Application in France in February 2001. Regulatory applications for the use of Remodulin for pulmonary hypertension in Canada and Switzerland were also filed in 2001. Review of these applications is pending.

The HeartBar is subject to FDA regulation as a medical food. The current product labeling was submitted to the FDA and future labeling changes are subject to FDA review. The HeartBar is manufactured at a cGMP facility. Telemedical products are subject to FDA regulation as medical devices. The devices manufactured and sold by Medicomp have received marketing approval from the FDA under Section 510(k) of the Food, Drug and Cosmetic Act.

Employees

United Therapeutics had approximately 128 employees as of March 15, 2002. The company also maintains active independent contractor relationships with various individuals with whom it has month-to-month consulting contracts. The company believes its employee relations are excellent.

Revenues and Industry Segments

The information required by Regulation S-K Items 101(b) and 101(d) related to financial information about segments and financial information about sales is contained in Note 14 of the audited consolidated financial statements, which are included in this Annual Report on Form 10-K.

Risk Factors

This Annual Report on Form 10-K contains forward-looking statements made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. These statements include, among others, statements relating to the following: the anti-cancer potential of Remodulin; the timing and outcome of clinical studies and regulatory filings; the achievement and maintenance of regulatory approvals; the ability to obtain additional license rights from Toray; the ability to find alternate sources of supply and manufacturing for United Therapeutics products; the existence, capabilities and activities of competitors; the adequacy of owned or leased facilities for operations; the expectation not to pay dividends on common stock in the foreseeable future; the extent of United Therapeutics' exposure to market risk; the ability to hold debt instrument investments to maturity; the statements identified as forward-looking statements in Item 7 Management's Discussion and Analysis of Financial Condition and Results of Operations included elsewhere in this Annual Report on Form 10-K; and statements preceded by, followed by or that include the words believes, expects, anticipates, intends, estimates, may or similar expressions. These statements involve risks, uncertainties and United Therapeutics' actual results may differ materially from the results discussed in these forward-looking statements. Factors that may cause such a difference include, but are not limited to, those discussed below.

If United Therapeutics' Products Fail In Clinical Studies, United Therapeutics Will Be Unable To Obtain FDA Approval And Will Not Be Able To Sell Those Products.

In order to sell its pharmaceutical products, United Therapeutics must receive regulatory approval. To obtain those approvals, United Therapeutics must conduct clinical studies demonstrating that the drug and the delivery mechanism for the drug are safe and effective. If United Therapeutics cannot obtain FDA approval for a product, that product cannot be sold and United Therapeutics' revenues will suffer. United Therapeutics completed its clinical studies of Remodulin for pulmonary arterial hypertension and filed for FDA approval and that approval is pending. Ultimate approval will be conditioned, in part, on United Therapeutics' agreement to perform a post marketing Phase IV clinical study of Remodulin and the results of such Phase IV study. United Therapeutics has completed a Phase II clinical study for Remodulin for late-stage peripheral vascular disease called critical limb ischemia. United Therapeutics expects to commence Phase I clinical trial programs to treat metastatic lung cancer with Remodulin and to treat Hepatitis C with UT231B. United Therapeutics is still completing pre-clinical studies for its other products. United Therapeutics' ongoing clinical studies might be delayed or halted for various reasons, including:

The drug is not effective, or physicians think that the drug is not effective;

Patients experience severe side effects during treatment;

Patients die during the clinical study because their disease is too advanced or because they experience medical problems that are not related to the drug being studied;

Patients do not enroll in the studies at the rate United Therapeutics expects;

Drug supplies are not sufficient to treat the patients in the studies; and

The results of preclinical testing cause delays in clinical trials.

In addition, the FDA and foreign regulatory authorities have substantial discretion in the approval process. The FDA and foreign regulatory authorities may not agree that United Therapeutics has demonstrated that its products are safe and effective.

If United Therapeutics Cannot Maintain Regulatory Approvals For Its Products, It Cannot Sell Those Products And Its Revenues Will Suffer.

The process of obtaining and maintaining regulatory approvals for new drugs is lengthy, expensive and uncertain. The manufacturing, distribution, advertising and marketing of these products are subject to extensive regulation. Any new product approvals United Therapeutics receives in the future could include significant restrictions on the use or marketing of the product. Product approvals, if granted, can be withdrawn for failure to comply with regulatory requirements or upon the occurrence of adverse events following commercial introduction of the products. The FDA has indicated that Remodulin is approvable for pulmonary arterial hypertension subject to United Therapeutics agreement to perform a randomized placebo-controlled clinical trial in Phase IV. Continued approval of Remodulin would, in part, be subject to the results of that trial. If approvals are withdrawn for a product, United Therapeutics cannot sell that product and its revenues will suffer. In addition, governmental authorities could seize United Therapeutics products or force United Therapeutics to recall its products. Finally, United Therapeutics and its officers and directors could be subject to civil and criminal penalties for failure to comply with these regulatory requirements.

United Therapeutics Has A History Of Losses And May Not Be Profitable.

United Therapeutics has lost money since its inception in 1996, and its accumulated deficit was approximately \$162.2 million at December 31, 2001. United Therapeutics expects to incur substantial additional losses, whether or not it continues to generate revenue, as it continues to develop its products. United Therapeutics expects its quarterly and annual operating results to fluctuate, depending primarily on the following factors:

Timing of regulatory approvals and commercial sales of its products;

Level of patient demand for its products;

Timing of payments to licensors and corporate partners; and

Timing of investments in new technologies.

Substantially all of United Therapeutics pharmaceutical products are in clinical studies and the related regulatory approval process, and United Therapeutics is not yet selling any of its main pharmaceutical products. United Therapeutics might not obtain regulatory approvals for its pharmaceutical products and may not be able to sell its pharmaceutical products commercially. Even if United Therapeutics sells its products, United Therapeutics may not ever be profitable and may not be able to sustain any profitability it achieves.

Discoveries Or Developments Of New Technologies By Others May Make United Therapeutics Products Obsolete.

Other companies may conduct research, make discoveries or introduce new products that render all or some of United Therapeutics technologies and products obsolete or not commercially viable. Researchers are continually making new discoveries that may lead to new technologies to treat the diseases United Therapeutics products are intended for. In addition, alternative approaches to treating chronic diseases, such as gene therapy, may make United Therapeutics products obsolete or noncompetitive. United Therapeutics is aware of one such new drug called Tracleer, an oral endothelin antagonist, which will compete with Remodulin and additional endothelin antagonists are being developed by others.

United Therapeutics Products May Not Be Commercially Successful Because Physicians And Patients May Not Accept Them.

Even if regulatory authorities approve United Therapeutics products, those products may not be commercially successful. United Therapeutics expects that most of its products, including Remodulin, will be very expensive. Patient acceptance of and demand for United Therapeutics products will depend largely on the following factors:

Acceptance by physicians and patients of United Therapeutics products as safe and effective therapies;

Reimbursement of drug and treatment costs by third-party payers;

Pricing of alternative products;

Convenience and ease of administration of United Therapeutics products; and

Prevalence and severity of side effects associated with United Therapeutics products.

United Therapeutics May Not Be Able To Successfully Integrate The Businesses Of Companies It May Or Has Acquired.

United Therapeutics recently acquired several businesses and may make additional acquisitions. The successful integration of the acquired businesses will require:

Definition and alignment of the management teams;

Coordination of geographically separate organizations;

Integration of product offerings;

Coordination of sales and marketing and research and development efforts;

Alignment of corporate cultures and management philosophies; and

Management focus on transitional activities.

Management may not be able to accomplish the integration of acquired businesses successfully or within planned periods. Any difficulties or material expenses encountered in the transition process could adversely affect the revenues and operating results of the businesses acquired. If United Therapeutics fails to integrate acquired businesses quickly and efficiently, it may incur unanticipated costs or be unable to successfully advance the business objectives of the acquisition.

If Third-Party Payers Will Not Reimburse Patients For United Therapeutics Drug Products, Sales Will Suffer.

United Therapeutics commercial success will depend in part on third-party payers agreeing to reimburse patients for the costs of United Therapeutics pharmaceutical products. Third-party payers frequently challenge the pricing of new drugs. United Therapeutics expects that its products will be very expensive. Third-party payers may not approve United Therapeutics products for reimbursement. If third-party payers do not approve a United Therapeutics product for reimbursement, sales will suffer, as patients will opt for a competing product that is approved for reimbursement.

United Therapeutics Relies On Third Parties To Develop, Market, Distribute And Sell Its Products And Those Third Parties May Not Perform.

United Therapeutics does not have the ability to independently conduct clinical studies, obtain regulatory approvals, market, distribute or sell most of its products and intends to rely substantially on experienced third parties to perform all of those functions. United Therapeutics may not locate acceptable contractors or enter into favorable agreements with them. If third parties do not successfully carry out their contractual duties or meet expected deadlines, United Therapeutics will be unable to get marketing approvals and will be unable to sell its products. Medtronic MiniMed Inc. is United Therapeutics exclusive partner for the subcutaneous delivery of Remodulin using the MiniMed microinfusion device in the field of pulmonary hypertension. United Therapeutics is relying on Medtronic MiniMed's experience, expertise and performance. Similarly, United Therapeutics is relying on Gentiva Health Services, Inc. and Priority Healthcare Corporation to market, distribute, and sell Remodulin in the United States once it has been approved by the FDA. If United Therapeutics partners in the United States and internationally are unsuccessful in their efforts, United Therapeutics revenues will suffer.

United Therapeutics Has Limited Experience With Manufacturing And Depends On Third Parties, Who May Not Perform, To Synthesize And Manufacture Many Of Its Products.

United Therapeutics itself has limited experience with manufacturing. In October 1999, United Therapeutics acquired SynQuest, Inc., a company that manufactured treprostinil, the bulk active ingredient in Remodulin, for United Therapeutics. In December 2000, SynQuest was dissolved and merged into United Therapeutics as its synthesis and manufacturing division. Prior to the acquisition of SynQuest, United Therapeutics had no experience with manufacturing. Even though United Therapeutics retained the employees and managers of SynQuest in connection with the acquisition, United Therapeutics may be unsuccessful in maintaining drug manufacturing operations and in maintaining its status as an FDA approved manufacturing site for Remodulin.

United Therapeutics relies on third parties for the manufacture of all other products other than Remodulin and its telemedicine systems. United Therapeutics is relying on Baxter Healthcare Corporation (formerly Cook Imaging Corporation) for the formulation of Remodulin. United Therapeutics relies on Magellan Laboratories Incorporated to test the purity and stability of each batch of Remodulin. United Therapeutics relies on Nellson Nutraceuticals to manufacture the HeartBar. United Therapeutics relies exclusively on Toray Industries, Inc. to manufacture beraprost. Although there are a limited number of companies that could replace each of these suppliers, management believes that other suppliers could provide similar services and materials. A change in suppliers, however, could cause a delay in distribution of Remodulin and other products, and in the conduct of clinical trials and commercial launch, which would adversely affect United Therapeutics' research and development efforts, and future sales efforts. United Therapeutics' manufacturing strategy presents the following risks:

The manufacturing processes for some of United Therapeutics' products have not been tested in quantities needed for commercial sales;

Delays in scale-up to commercial quantities could delay clinical studies, regulatory submissions and commercialization of United Therapeutics' products;

A long lead time is needed to manufacture Remodulin, and the manufacturing process is complex;

United Therapeutics and manufacturers of United Therapeutics' products are subject to the FDA's good manufacturing practices regulations and similar foreign standards, and although United Therapeutics controls compliance issues with respect to synthesis and manufacturing conducted internally, the company does not have control over compliance with these regulations by its third-party manufacturers;

If United Therapeutics has to change to another manufacturing contractor or abandon its captive manufacturing operations, FDA and comparable foreign regulators would require new testing and compliance inspections and the new manufacturer would have to be educated in the processes necessary for the production of the affected product;

Without satisfactory long-term agreements with its manufacturers, United Therapeutics will not be able to develop or commercialize its products, other than Remodulin, as planned or at all and will have to rely solely on internal manufacturing capacity;

Without substantial experience in operating a manufacturing facility, United Therapeutics may not be able to successfully manufacture Remodulin; and

United Therapeutics may not have intellectual property rights, or may have to share intellectual property rights, to many improvements in the manufacturing processes or new manufacturing processes for its products.

Any of these factors could delay clinical studies or commercialization of United Therapeutics' products, entail higher costs and result in United Therapeutics being unable to effectively sell its products.

If The Licenses United Therapeutics Depends On Are Breached Or Terminated, United Therapeutics Would Lose Its Right To Develop And Sell The Products Covered By The Licenses.

United Therapeutics acquires or licenses drugs which have been discovered and initially developed by others. In addition, United Therapeutics has obtained and will be required to obtain licenses to third-party technology to conduct its business, including licenses for its products and a license for the MiniMed microinfusion device. This dependence on licenses has the following risks:

United Therapeutics may not be able to obtain future licenses at a reasonable cost or at all;

If any of United Therapeutics' licenses are terminated, United Therapeutics will lose its rights to develop and market some or all of its products;

The licenses that United Therapeutics holds generally provide for termination by the licensor in the event United Therapeutics breaches the license agreement, including by failing to pay royalties and other fees on a timely basis;

In the event that Glaxo Wellcome terminates its license agreement, United Therapeutics will have no further rights to utilize their patents or trade secrets to develop and commercialize Remodulin; and

If licensors fail to maintain the intellectual property licensed to United Therapeutics as required by most of United Therapeutics' license agreements, United Therapeutics may lose its rights to develop and market some or all of its products and may be forced to incur substantial additional costs to maintain the intellectual property itself or force the licensor to do so.

If United Therapeutics' Patent And Other Intellectual Property Protection Is Inadequate, United Therapeutics' Sales And Profits Could Suffer Or Competitors Could Force United Therapeutics' Products Completely Out Of The Market.

The U.S. patent for the method of treating pulmonary hypertension with Remodulin expires in 2009. The U.S. patents for the beraprost composition of matter and synthesis expire in 2003 and 2010. United Therapeutics may not be able to extend these or any other patents. Competitors may develop products based on the same active ingredients as United Therapeutics' products, including Remodulin, and market those products after the patents expire, or may design around United Therapeutics' existing patents. If this happens, United Therapeutics' sales would suffer and United Therapeutics' profits could be severely impacted.

The issued beraprost patents do not cover methods of treating any disease, including pulmonary hypertension or peripheral vascular disease, using beraprost. Patents may be issued to others which prevent the manufacture or sale of United Therapeutics' products. United Therapeutics may have to license those patents and pay significant fees or royalties to the owners of the patents in order to keep marketing its products. This would cause profits on sales to suffer.

The laws of foreign jurisdictions in which United Therapeutics intends to sell its products may not protect the company's rights to the same extent as the laws of the United States.

United Therapeutics has filed a patent application in the United States for the synthesis of Remodulin, but this and other patent applications which have been or may be filed by United Therapeutics may not be issued. The scope of any patent that issues may not be sufficient to protect United Therapeutics' technology. The laws of foreign jurisdictions in which United Therapeutics intends to sell its products may not protect the company's rights to the same extent as the laws of the United States.

In addition to patent protection, United Therapeutics also relies on trade secrets, proprietary know-how and technology advances. United Therapeutics enters into confidentiality agreements with its employees and others, but these agreements may not be effective in protecting the company's proprietary information. Others may independently develop substantially equivalent proprietary information or obtain access to United Therapeutics' know-how.

Litigation, which is very expensive, may be necessary to enforce or defend United Therapeutics' patents or proprietary rights and may not end favorably for United Therapeutics. Any of United Therapeutics' licenses, patents or other intellectual property may be challenged, invalidated, canceled, infringed or circumvented and may not provide any competitive advantage to United Therapeutics.

United Therapeutics May Not Have, Or May Have To Share Rights To, Future Inventions Arising From Its Outsourcing Agreements And May Lose Potential Profits Or Savings.

Pursuant to United Therapeutics' agreement with Medtronic MiniMed for the subcutaneous delivery of Remodulin, any new inventions or intellectual property that arise from United Therapeutics' activities with Medtronic MiniMed will be owned jointly by United Therapeutics and Medtronic MiniMed. Under United Therapeutics' agreement with Shearwater Polymers, Inc. for pegylation, Shearwater will own any inventions that relate to a non-prostacyclin pegylation method. If United Therapeutics does not have rights to new developments or inventions that arise during the terms of these agreements, or United Therapeutics has to share the rights with others, United Therapeutics will lose the benefit of the new rights which may mean a loss of future profits or savings generated from improved technology.

If United Therapeutics' Highly Qualified Management And Technical Personnel Leave The Company, Its Business May Suffer.

United Therapeutics is dependent on its current management. United Therapeutics does not maintain key person life insurance. United Therapeutics' success will depend in part on retaining the services of its existing management and key personnel and attracting and retaining new highly qualified personnel. Expertise in the field of cardiovascular medicine, infectious disease and oncology is not generally available in the market, and competition for qualified management and personnel is intense.

United Therapeutics May Not Successfully Compete With Established Drug Companies.

United Therapeutics competes with established drug companies during product development for, among other things, funding, access to licenses, personnel and third-party collaborators. United Therapeutics will also compete with these companies following approval of its products. Almost all of these companies have substantially greater financial, marketing, sales, distribution and technical resources, and more experience in research and development, clinical trials and regulatory matters, than United Therapeutics. United Therapeutics is aware of existing treatments that will compete with its products. If United Therapeutics cannot successfully compete with new or existing products, United Therapeutics' marketing and sales will suffer and it may not ever be profitable.

If United Therapeutics Needs Additional Financing And Cannot Obtain It, Product Development And Sales May Be Limited.

United Therapeutics may need to spend more money than currently expected because it may need to change its product development plans or product offerings to address difficulties with clinical studies or preparing for commercial sales. United Therapeutics may not be able to obtain additional funds on commercially reasonable terms or at all. If additional funds are not available, United Therapeutics may be compelled to delay clinical studies, curtail operations or obtain funds through collaborative arrangements that may require it to relinquish rights to certain products or potential markets.

United Therapeutics May Not Have Adequate Insurance And May Have Substantial Exposure To Payment Of Product Liability Claims.

The testing, manufacture, marketing, and sale of human drugs involves product liability risks. Although United Therapeutics has product liability insurance, United Therapeutics may not be able to maintain this product liability insurance at an acceptable cost, if at all, and this insurance may not provide adequate coverage against potential losses. If claims or losses exceed United Therapeutics' liability insurance coverage, United Therapeutics may go out of business.

United Therapeutics Stock Price Could Be Volatile And Could Decline.

The market prices for securities of drug and biotechnology companies are highly volatile, and there are significant price and volume fluctuations in the market that may be unrelated to particular companies' operating performances. United Therapeutics' stock price could decline suddenly due to the following factors:

Results of clinical trials;

Timing of regulatory approvals;

Outcome of regulatory reviews;

Fluctuations in operating results;

Announcements by United Therapeutics or others of technological innovations or new products;

Failure to meet estimates or expectations of securities analysts;

Rate of product acceptance;

Developments in patent or other proprietary rights;

Public concern as to the safety of products developed by United Therapeutics or by others;

Future sales of substantial amounts of common stock by existing United Therapeutics stockholders; and

General market conditions.

Future Sales Of Shares May Depress The Stock Price.

If the stockholders sell a substantial number of shares of United Therapeutics' common stock in the public market, or investors become concerned that substantial sales might occur, the market price of the common stock could decrease. Such a decrease could make it difficult for United Therapeutics to raise capital by selling stock or to pay for acquisitions using stock. To the extent outstanding options or warrants are exercised or additional shares of capital stock are issued, existing stockholders may incur additional dilution.

Existing Directors And Executive Officers Of United Therapeutics Own A Substantial Block Of Stock And Might Be Able To Direct The Outcome Of Matters Requiring Stockholder Approval.

United Therapeutics' directors and named executive officers beneficially own approximately 22 percent of its outstanding common stock. Accordingly, these stockholders as a group might be able to direct the outcome of matters requiring approval by United Therapeutics' stockholders, including the election of its directors. Such stockholder control could delay or prevent a change of control of United Therapeutics.

Because Of The Rights Agreement And Anti-Takeover Provisions In United Therapeutics Certificate Of Incorporation And Bylaws, A Third Party May Be Discouraged From Making A Takeover Offer Which Could Be Beneficial To United Therapeutics And The Public Stockholders.

On December 14, 2000, United Therapeutics adopted a shareholder rights plan. The effect of this rights plan and of certain provisions of United Therapeutics Amended and Restated Certificate of Incorporation and Amended and Restated By-Laws, and the anti-takeover provisions of Section 203 of the Delaware General Corporation Law, could delay or prevent a third party from acquiring United Therapeutics or replacing members of the United Therapeutics board of directors, even if the acquisition or the replacements would be beneficial to United Therapeutics stockholders. These factors could also reduce the price that certain investors might be willing to pay for shares of the common stock and result in the market price being lower than it would be without these provisions.

If Stockholders Do Not Receive Dividends, Stockholders Must Rely On Stock Appreciation For Any Return On Their Investment In United Therapeutics.

United Therapeutics has never declared or paid cash dividends on any of its capital stock. United Therapeutics currently intends to retain its earnings for future growth and therefore does not anticipate paying cash dividends in the future.

EXECUTIVE OFFICERS OF THE REGISTRANT

The following is a list, as of March 15, 2002, setting forth certain information regarding the executive officers of United Therapeutics. Each executive officer's term will end pursuant to the terms of his or her employment contract or upon his or her earlier resignation or the appointment of a successor.

| Name | Age | Position | Term Ending |
|---|------------|--|--------------------|
| Martine A. Rothblatt, Ph.D., J.D., M.B.A. | 47 | Chairman, Chief Executive Officer and Director | 2006 |
| Roger Jeffs, Ph.D. | 40 | President and Chief Operating Officer | 2006 |
| David A. Walsh, Ph.D. | 57 | Executive Vice President and Chief Operating Officer for Production | 2002 |
| Barry B. Kanarek, M.D., Ph.D. | 55 | Chief Medical Officer, President and Chief Operating Officer, Unither Pharmaceuticals, Inc., | 2004 |
| Ricardo Balda, M.S. | 60 | Chief Executive Officer, Medicomp, Inc. and Director | 2006 |
| Paul A. Mahon, J.D. | 38 | Senior Vice President, General Counsel and Corporate Secretary | 2006 |
| Fred T. Hadeed, C.P.A. | 37 | Chief Financial Officer | 2006 |

Martine A. Rothblatt, Ph.D., J.D., M.B.A., started United Therapeutics in 1996 and has served as Chairman and Chief Executive Officer since its inception. Dr. Rothblatt is also Chairman of the Law and Medicine Committee of the International Bar Association and President of the William Harvey Medical Research Foundation.

Roger Jeffs, Ph.D., joined United Therapeutics in September of 1998 as Director of Research, Development and Medical. Dr. Jeffs was promoted to Vice President of Research, Development and Medical in July 2000 and to President and Chief Operating Officer in January 2001. Prior to 1998, Dr. Jeffs worked at Amgen, Inc. as Manager of Clinical Affairs and Associate Director of Clinical Research from 1995 to 1998, where he served as the worldwide clinical leader of the Infectious Disease Program.

David A. Walsh, Ph.D., was promoted to Executive Vice President and Chief Operating Officer of Production of United Therapeutics in 2001. From 1999, Dr. Walsh had served as Vice President of Operations of SynQuest, Inc., now a division of United Therapeutics. Prior to joining SynQuest, Dr. Walsh served as Vice President of Operations of Gem Pharmaceuticals, Inc. from 1997 to 1999.

Barry B. Kanarek, M.D., Ph.D., was appointed President and Chief Operating Officer of Unither Pharmaceuticals, Inc., a subsidiary of United Therapeutics, in 2000. In November 2001, he was appointed Chief Medical Officer of United Therapeutics. Prior to joining Unither Pharmaceuticals, Dr. Kanarek served as Senior Vice President of Medical and Regulatory Affairs and Chief Medical Officer of Emisphere Technology from 1998 to 2000, and Executive Vice President of Global Medical Operations and Chief Medical Officer of ClinTrials Research from 1997 to 1998. From 1990 to 1997, Dr. Kanarek served as Senior Vice President of Medical Affairs and Chief Medical Officer of GlaxoWellcome.

Ricardo Balda, M.S., was appointed as the Chief Executive Officer of Medicomp, Inc. upon its acquisition by Unither Telemedicine Services Corp., a subsidiary of United Therapeutics, in December 2000. Mr. Balda also serves on the United Therapeutics Board of Directors. For the five years prior to the Medicomp acquisition, Mr. Balda served as Chairman and President of Medicomp. In 1998, Mr. Balda founded Telemedical Procedures, LLC, which was also acquired by Unither Pharmaceuticals in December 2000. Mr. Balda also serves on the Board of Advisors of the Florida Institute of Technology.

Paul A. Mahon, J.D., has served as General Counsel and Assistant Corporate Secretary of United Therapeutics since its inception in 1996. In June 2001, Mr. Mahon joined United Therapeutics as a full-time employee as Senior Vice President, General Counsel, and Corporate Secretary. Prior to that, he served United Therapeutics in his capacity as

principal and managing partner of the law firm, Mahon Patusky Rothblatt & Fisher, Chartered since its formation in 1993.

Fred T. Hadeed, C.P.A., has served as Chief Financial Officer of United Therapeutics since January 2000. Prior to joining United Therapeutics, Mr. Hadeed practiced public accounting from 1989 to 2000 at KPMG LLP, where he most recently served in its life sciences practice.

ITEM 2. PROPERTIES

United Therapeutics currently maintains several leased and owned facilities. The company owns its corporate office in Silver Spring, Maryland. The company leases its legal and governmental affairs office in Washington, D.C. The company leases its clinical development office in Research Triangle Park, North Carolina. The company leases laboratory and office space in Chicago, Illinois where the bulk active ingredient in Remodulin is synthesized. The Chicago facility contains approximately 10,000 square feet of total space. The company's subsidiary, Unither Pharma, Inc., leases office space in Satellite Beach, Florida and office and warehouse space in Belmont, California. The company's subsidiary, Medicomp, Inc., leases manufacturing and office space in Melbourne, Florida. The Melbourne facility contains approximately 15,400 square feet of total space. United Therapeutics' subsidiary, United Therapeutics Europe Ltd., leases office space in London, England. United Therapeutics also owns a building adjacent to its corporate office in Silver Spring, Maryland. United Therapeutics believes these facilities are adequate for its current and planned operations.

The manufacturing and office space in Melbourne, Florida are used in United Therapeutics' telemedicine segment. All other properties and leased facilities are used in United Therapeutics' pharmaceutical segment.

ITEM 3. LEGAL PROCEEDINGS

None.

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

No matters were submitted to a vote of security holders during the fourth quarter of the fiscal year covered by this report.

PART II**ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY AND RELATED STOCKHOLDER MATTERS****Market for Common Equity**

United Therapeutics' common stock (and associated preferred stock purchase rights) trades on the Nasdaq Stock Market's Nasdaq National Market under the symbol UTHR. The table below sets forth the high and low closing bid prices for the common stock for the periods indicated:

| | | 2001 | | 2000 | |
|-----------|--------------|----------|----------|-----------|----------|
| | | High | Low | High | Low |
| January 1 | March 31 | \$ 17.94 | \$ 11.25 | \$ 100.00 | \$ 52.00 |
| April 1 | June 30 | \$ 15.88 | \$ 10.74 | \$ 108.31 | \$ 40.00 |
| July 1 | September 30 | \$ 13.93 | \$ 8.85 | \$ 128.50 | \$ 73.00 |
| October 1 | December 31 | \$ 16.35 | \$ 8.77 | \$ 82.00 | \$ 13.00 |

As of March 6, 2002, there were 98 holders of record of common stock. United Therapeutics estimates that included within the holders of record are approximately 3,700 beneficial owners of common stock. As of March 15, 2002, the closing bid price for the common stock was \$12.10.

Dividend Policy

United Therapeutics has never paid and does not intend to pay any dividends on the common stock in the foreseeable future but intends to retain any earnings for use in its business operations.

Recent Sales of Unregistered Securities

In February 2001, United Therapeutics issued 9,868 shares of its common stock to Columbia University to further research in finding the causes and cures for pulmonary hypertension.

At various times throughout 2001, United Therapeutics issued options to consultants in exchange for services. The aggregate number of options issued was 78,253. Upon exercise, each option may be converted to one share of United Therapeutics common stock in exchange for cash equal to the exercise price. All exercise prices were set at the closing price of United Therapeutics' common stock on the day preceding the grant of each of these options.

Initial Public Offering Use of Proceeds

United Therapeutics registered 4,500,000 shares of its common stock, par value \$.01 per share, and an additional 675,000 shares of its common stock for sale to the underwriters exclusively to cover over-allotments, on Registration Statement on Form S-1, Commission File No. 333-76409. The Securities and Exchange Commission declared United Therapeutics' registration statement effective on June 17, 1999. The net proceeds to United Therapeutics from the offering of the 5,175,000 shares, after deducting expenses was approximately \$56.4 million.

Since the completion of the initial public offering in June 1999 and the exercise of the over-allotment shares in July 1999, the net offering proceeds have been fully applied to the following uses in the following approximate amounts as of March 31, 2001: \$35.2 million for research and development, \$766,000 to purchase machinery, equipment and leasehold improvements, \$7.2 million for working capital and general corporate purposes (including compensation to employees, officers, and directors in accordance with their standard agreements), \$313,000 to purchase SynQuest, Inc., \$3.1 million to purchase a 15 percent interest in Synergy Pharmaceuticals, Inc., \$1.0 million to purchase a 59 percent interest in Northern Therapeutics, Inc., \$8.1 million to purchase Medicomp, Inc. and Telemedical Procedures, LLC, \$200,000 to purchase Cooke Pharma, Inc. and \$493,000 to repay debt. Except as indicated, all of the payments described above were direct or indirect payments to entities or persons other than directors, officers, or greater than 10% owners of any equity securities of United Therapeutics.

ITEM 6. SELECTED FINANCIAL DATA

The following selected consolidated financial data should be read in conjunction with United Therapeutics' consolidated financial statements and related notes and Management's Discussion and Analysis of Financial Condition and Results of Operations included elsewhere in this Annual Report on Form 10-K. The historical results are not necessarily indicative of results to be expected for future periods.

| | Years Ended December 31, | | | | |
|--|--------------------------|------------|------------|------------|-----------|
| | 2001 | 2000 | 1999 | 1998 | 1997 |
| Consolidated Statements of Operations | | | | | |
| Data: | | | | | |
| (In thousands, except per share data) | | | | | |
| Revenues | \$ 5,731 | \$ 2,049 | \$ 436 | \$ 54 | \$ 116 |
| Operating expenses: | | | | | |
| Research and development | 32,590 | 70,188 | 30,715 | 11,015 | 2,027 |
| General and administrative | 13,559 | 11,719 | 4,978 | 2,366 | 1,006 |
| Sales and marketing | 3,384 | 17 | | | |
| Cost of sales | 3,137 | 1,626 | 164 | | |
| Total operating expenses | 52,670 | 83,550 | 35,857 | 13,381 | 3,033 |
| Loss from operations | (46,939) | (81,501) | (35,421) | (13,327) | (2,917) |
| Other income (expense): | | | | | |
| Interest income | 10,021 | 10,693 | 1,925 | 510 | 135 |
| Interest expense | (173) | (120) | (58) | (15) | (8) |
| Equity loss in affiliate | (257) | | | | |
| Write-down of investment | | (4,790) | | | (111) |
| Other, net | 60 | 109 | 50 | | |
| Total other income, net | 9,651 | 5,892 | 1,917 | 495 | 16 |
| Net loss before income tax | (37,288) | (75,609) | (33,504) | (12,832) | (2,901) |
| Income tax | | | (3) | (3) | |
| Net loss | \$(37,288) | \$(75,609) | \$(33,507) | \$(12,835) | \$(2,901) |
| Net loss per common share - basic and diluted (1) | \$ (1.84) | \$ (3.93) | \$ (2.51) | \$ (1.54) | \$ (0.87) |
| Weighted average number of common shares outstanding - basic and diluted | 20,286 | 19,237 | 13,374 | 8,322 | 3,339 |
| | As of December 31, | | | | |
| | 2001 | 2000 | 1999 | 1998 | 1997 |

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Consolidated Balance Sheet Data:

(In thousands)

| | | | | | |
|---|------------|------------|-----------|-----------|----------|
| Cash, cash equivalents and marketable investments | \$ 172,299 | \$ 215,419 | \$ 51,596 | \$ 16,802 | \$ 5,018 |
| Total assets | 212,121 | 250,645 | 59,943 | 18,747 | 5,074 |
| Notes and leases payable (2) | 1,938 | 1,907 | 1,841 | 314 | |
| Accumulated deficit | (162,170) | (124,882) | (49,273) | (15,767) | (2,931) |
| Total stockholders' equity | 196,399 | 234,738 | 53,566 | 16,676 | 4,617 |

(1) See Note 2 of Notes to Consolidated Financial Statements for a description of the computation of basic and diluted net loss per share.

(2) Includes current portion of notes and leases payable.

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

The following discussion should be read in conjunction with the consolidated financial statements and related notes appearing elsewhere in this annual report. The following discussion contains forward-looking statements concerning the expectation of continued losses, cash needed for clinical trials and product research and development contract obligations during 2002, the funding for such expenses, expectations concerning milestone and royalty payments in 2002, the use of net operating loss carryforwards and business tax credit carryforwards, the completion of in-process research and development products, the levels of working capital required for existing research and development and general and administrative programs, the outcome and timing of regulatory approvals, the expected levels and timing of Remodulin sales and the adequacy of United Therapeutics' resources to fund operations through 2004. These forward-looking statements reflect the plans and estimated beliefs of management as of the date of this report. Actual results could differ materially from those anticipated in the forward-looking statements. Factors that could cause or contribute to such differences include those discussed below and elsewhere in this Annual Report, particularly in Risk Factors.

Overview

United Therapeutics is a biotechnology company focused on commercialization of unique therapeutic products to treat chronic and life-threatening cardiovascular, infectious and oncological diseases. United Therapeutics commenced operations in June 1996 and, since its inception, has devoted substantially all of its resources to its research and development programs. United Therapeutics' lead product is Remodulin. In February 2002, the FDA notified United Therapeutics that Remodulin was deemed approvable for the treatment of pulmonary arterial hypertension in patients with NYHA class II-IV symptoms. Final approval is conditioned on the FDA's acceptance of the product label and United Therapeutics' agreement to perform a post marketing Phase IV clinical study to further assess the clinical benefit of Remodulin. United Therapeutics has agreed to perform the post marketing Phase IV clinical study and is currently discussing the content of the study protocol and product label with the FDA. United Therapeutics has generated pharmaceutical revenues from sales of Remodulin on a government-reimbursed basis in certain European countries, arginine product sales, chemical synthesis services, the resale of certain medical supplies used for its pharmaceutical products and government grants, as well as non-pharmaceutical revenues from telemedicine products. United Therapeutics has funded its operations primarily from the proceeds of the sales of common stock.

United Therapeutics has incurred net losses each year since inception and had an accumulated deficit of \$162.2 million at December 31, 2001. United Therapeutics expects to continue to incur net losses and cannot provide assurances that, in the future, it will become profitable.

Financial Position

Cash, cash equivalents and marketable investments at December 31, 2001 were \$172.3 million as compared to \$215.4 million at December 31, 2000. The decrease of approximately \$43.1 million is primarily a result of cash used in operations during the year ended December 31, 2001.

At December 31, 2001, total liabilities were approximately \$15.7 million, as compared to approximately \$15.9 million at December 31, 2000, and consisted primarily of trade payables, accrued expenses and amounts due to affiliate. At December 31, 2001, total stockholders' equity was approximately \$196.4 million, as compared to \$234.7 million at December 31, 2000.

Results Of Operations

Years ended December 31, 2001 and 2000

Revenues for the year ended December 31, 2001 were approximately \$5.7 million, as compared to approximately \$2.0 million for the year ended December 31, 2000. The increase was due primarily to sales of Remodulin and telemedicine services. Approximately \$493,000 was earned from the sale of Remodulin to foreign distributors for the use in government-reimbursed patients in certain European countries. Approximately \$1.1 million of these revenues was earned from the resale of pumps and supplies to distributors. Sales of cardiac monitoring devices and services totaled approximately \$2.8 million of these revenues. Sales of HeartBar products totaled approximately \$542,000. Approximately \$801,000 of these revenues was earned by United Therapeutics' synthesis and manufacturing division for the synthesis and manufacture of complex molecules for third parties.

Research and development expenses consist primarily of costs to acquire pharmaceutical products and product rights for development and amounts paid to contract research organizations, hospitals and laboratories for the provision of services and materials for drug development and clinical trials. Research and development expenses were \$32.6 million for the year ended December 31, 2001, as compared to approximately \$70.2 million for the year ended December 31, 2000. The decrease of approximately \$37.6 million was due primarily to the expenditure in 2000 of approximately \$19.8 million in licensing fees (consisting of \$1.0 million in cash and common stock valued at \$18.8 million) to obtain the exclusive rights to develop sustained release formulations of beraprost in the United States and Canada and expenses of approximately \$16.9 million related to the acquisition of in-process research and development (see *In-Process Research & Development*).

General and administrative expenses consist primarily of salaries, office expenses and professional fees, provisions for doubtful accounts receivable and obsolete inventory, depreciation and amortization. General and administrative expenses were \$13.6 million for the year ended December 31, 2001, as compared to \$11.7 million for the year ended December 31, 2000. This increase was primarily due to increased expenses in 2001 of approximately \$564,000 related to provisions for doubtful accounts receivable and obsolete inventory, and approximately \$1.9 million of increased depreciation and amortization of goodwill and other intangible assets resulting from the acquisitions of Medcomp, Inc., Telemedical Procedures, LLC and Cooke Pharma, Inc. in December 2000. These increases were offset by a nonrecurring grant in 2000 of stock totaling \$1.5 million.

Sales and marketing consists of the salaries, travel and other expenses necessary to market United Therapeutics' products. Sales and marketing expenses were approximately \$3.4 million for the year ended December 31, 2001, as compared to approximately \$17,000 for the year ended December 31, 2000. This increase was due primarily to expanded activities related to subsidiaries acquired in late 2000.

Cost of sales consists of the cost to manufacture or acquire products that are sold to customers. Cost of sales were approximately \$3.1 million for the year ended December 31, 2001, as compared to approximately \$1.6 million for the year ended December 31, 2000. This increase was due primarily to sales by subsidiaries acquired in late 2000.

There was no write-down of investment for the year ended December 31, 2001 as compared to \$4.8 million for the year ended December 31, 2000. The write-down in 2000 related to United Therapeutics' investment in Synergy Pharmaceuticals, Inc.

Interest income for the year ended December 31, 2001 was \$10.0 million, as compared to approximately \$10.7 million for the year ended December 31, 2000. This decrease was attributable primarily to decrease in the amount of cash available for investing due to cash used for operations.

Years ended December 31, 2000 and 1999

Revenues for the year ended December 31, 2000 were approximately \$2.0 million, as compared to approximately \$436,000 for the year ended December 31, 1999. The increase was due primarily to increases in synthesis and manufacturing revenues and from sales of Remodulin pumps and supplies. Approximately \$1.1 million of these revenues was earned by United Therapeutics' synthesis and manufacturing division for the synthesis and manufacture of complex molecules for third parties. Approximately \$740,000 of these revenues was earned from the resale of pumps and supplies to distributors in connection with United Therapeutics' lead product, Remodulin.

Approximately \$150,000 of these revenues was earned under the orphan drug grant awarded by the FDA related to United Therapeutics development of Remodulin for the treatment of primary pulmonary hypertension.

Research and development expenses consist primarily of costs to acquire pharmaceutical products and product rights for development and amounts paid to contract research organizations, hospitals and laboratories for the provision of services and materials for drug development and clinical trials. Research and development expenses were \$70.2 million for the year ended December 31, 2000, as compared to \$30.7 million for the year ended December 31, 1999. The increase of approximately \$39.5 million was due primarily to the expenditure of approximately \$19.8 million in licensing fees (consisting of \$1.0 million in cash and common stock valued at \$18.8 million) in June 2000 to obtain the exclusive rights to develop sustained release formulations of beraprost in the United States and Canada, increased expenses of approximately \$7.3 million related to patient enrollment in United Therapeutics clinical trials, increased expenses of approximately \$16.9 million related to the acquisition of in-process research and development (see *In-Process Research & Development*), and increased expenses of approximately \$4.1 million related to other research. The increase was offset by the prior year expenditure of \$9.1 million in licensing fees (consisting of \$100,000 in cash and common stock valued at \$9.0 million) in 1999 to obtain the exclusive rights to develop the immediate release formulation of beraprost in the United States and Canada.

General and administrative expenses consist primarily of salaries, office expenses and professional fees. General and administrative expenses were \$11.7 million for the year ended December 31, 2000, as compared to \$5.0 million for the year ended December 31, 1999. This increase was due primarily to nonrecurring grants of approximately \$2.5 million of stock and options and increased expenses of approximately \$3.2 million related to professional fees, increased staffing and related travel to support expanded operations.

Cost of sales consists of the cost to manufacture or acquire products that are sold to customers. Cost of sales were approximately \$1.6 million for the year ended December 31, 2000, as compared to approximately \$164,000 for the year ended December 31, 1999. This increase was due primarily to increased sales of Remodulin pumps and supplies to distributors.

The write-down of investment totaled \$4.8 million during the year ended December 31, 2000 as compared to zero for the year ended December 31, 1999. The write-down in 2000 related to United Therapeutics investment in Synergy Pharmaceuticals, Inc.

Interest income for the year ended December 31, 2000 was \$10.7 million, as compared to approximately \$1.9 million for the year ended December 31, 1999. This increase was attributable primarily to an increase in the amount of cash available for investing resulting from sales of common stock since December 31, 1999, less amounts used for operations.

In-Process Research & Development

During 2000, United Therapeutics acquired the assets and assumed certain liabilities of Cooke Pharma, Inc. in a purchase transaction which resulted in a write-off of in-process research and development (IPR&D) related to in-process projects that had not yet reached technological feasibility and had no alternative future uses. The projects under development at the valuation date were expected to address the coronary and peripheral arterial disease markets as well as the market of persons that are at risk of developing some form of heart disease. It was anticipated that research and development related to these projects would be completed by 2002. However, United Therapeutics has decided to initiate studies of arginine in pulmonary hypertension prior to coronary and peripheral arterial diseases. These studies in pulmonary hypertension are expected to commence in 2002 and be completed in 2003. The delay in the coronary and peripheral arterial disease studies is not expected to have a material impact on United Therapeutics.

Also during 2000, United Therapeutics acquired the assets of Medicomp, Inc. in a purchase transaction which resulted in a write-off of IPR&D related to in-process projects that had not yet reached technological feasibility and had no alternative future uses. At the acquisition date, Medicomp was conducting design, development, engineering and testing activities associated with the completion of a number of new technological innovations that were integral to Medicomp's plan to launch a first generation automatic wireless heart monitoring system. It was anticipated that completion of these projects would range from 9 to 12 months. Completion is expected to occur in 2002. This delay is not expected to have a material impact on United Therapeutics.

Liquidity And Capital Resources

Until June 1999, United Therapeutics financed its operations principally through various private placements of common stock. On June 17, 1999, United Therapeutics completed an initial public offering of 4.5 million shares of common stock at \$12.00 per share. Net proceeds to United Therapeutics, after deducting underwriting commissions and offering expenses, were approximately \$48.9 million. On July 16, 1999, United Therapeutics closed on the sale of 675,000 over-allotment shares to its underwriters and received net proceeds, after deducting underwriting commissions and offering expenses, of approximately \$7.5 million. On January 18, 2000, United Therapeutics closed on the sale of 2.5 million shares of common stock at \$32.00 per share in a private placement and received net proceeds, after deducting underwriting commissions and offering expenses, of approximately \$74.8 million. On July 20, 2000, United Therapeutics closed on the sale of 1.3 million shares of its common stock at \$110.00 per share in a private placement and received net proceeds, after deducting underwriting commissions and offering expenses, of approximately \$134.3 million.

United Therapeutics working capital at December 31, 2001 was \$58.2 million, as compared with \$210.6 million at December 31, 2000. This reduction is primarily due to the investment in long-term marketable investments of approximately \$116.2 million as of December 31, 2001 and cash used for operations. These long-term marketable investments consist of federally sponsored and corporate debt securities maturing in 2002 through 2006. Current liabilities at December 31, 2001 were approximately \$10.8 million, as compared with \$11.5 million at December 31, 2000. United Therapeutics debt at December 31, 2001 and 2000 was \$1.9 million and consisted of equipment leases and two mortgage notes, one secured by a certificate of deposit, and both secured by the buildings and property owned by United Therapeutics located at 1106 & 1110 Spring Street in Silver Spring, Maryland. Both mortgages are payable in monthly installments over 30 years.

Net cash used in operating activities was approximately \$38.9 million, \$31.1 million and \$23.7 million for the years ended December 31, 2001, 2000 and 1999, respectively. The increases resulted primarily from the expansion of United Therapeutics operations. For the years ended December 31, 2001, 2000 and 1999, United Therapeutics spent approximately \$687,000, \$640,000 and \$2.0 million, respectively, of cash for property, plant and equipment. Net purchases and sales of marketable investments used approximately \$134.1 million of cash in the year ended December 31, 2001, provided approximately \$19.8 million of cash in the year ended December 31, 2000, and used approximately \$21.8 million of cash in the year ended December 31, 1999. Net cash used in financing activities was approximately \$2.9 million for the year ended December 31, 2001 and was primarily used to repurchase shares of United Therapeutics common stock. The stock repurchase program expired in December 2001. Net cash provided by financing activities was approximately \$206.6 million for the year ended December 31, 2000 and was derived primarily from the private placements of common stock in January and July 2000. Net cash provided by financing activities was approximately \$59.3 million for the year ended December 31, 1999 and was primarily derived from the proceeds of the initial public offering of common stock in June 1999.

United Therapeutics has contracted with various companies and research organizations to coordinate and perform clinical trials and to provide other services related to the development of Remodulin and other products. It is anticipated that approximately \$1.4 million in cash will be used during 2002 under these agreements. These expenses will be funded from existing working capital. United Therapeutics expects to make milestone payments pursuant to existing license agreements of up to approximately \$220,000 during 2002. United Therapeutics expects to make royalty payments relating to sales of Remodulin and other products during 2002. The royalties will range from 1% to 10% of sales from these products. United Therapeutics anticipates that its existing research and development and general and administrative programs will require similar levels of working capital as has been used in recent years.

In December 2000, United Therapeutics provided guidance in respect of revenues from the expected sales of its lead drug, Remodulin, based on the prior assumption of FDA approval of Remodulin by April 16, 2001. United Therapeutics believes that its prior revenue projections will be adversely affected by the time delay in commercial launch of Remodulin, the extent of which is not known. United Therapeutics expects that existing capital resources (comprised of cash and marketable investments) will be adequate to fund its operations through 2004. United Therapeutics future capital requirements and the adequacy of its available funds will depend on many factors, including:

- Regulatory approval of Remodulin;
- Size and scope of Remodulin post marketing Phase IV clinical studies;
- Size and scope of its development efforts for existing and additional products;

Future milestone and royalty payments;
Cost, timing and outcomes of regulatory reviews;
Rate of technological advances;
Status of competitive products;
Defending and enforcing intellectual property rights;
Development of manufacturing resources or the establishment, continuation or termination of third-party manufacturing arrangements;
Establishment, continuation or termination of third-party clinical trial arrangements;
Development of sales and marketing resources or the establishment, continuation or termination of third-party sales and marketing arrangements;
Establishment of additional strategic or licensing arrangements with other companies; and
Risks associated with acquisitions, including the ability to integrate acquired businesses.

As of December 31, 2001, United Therapeutics had available approximately \$95.9 million in net operating loss carryforwards and \$24.7 million in business tax credit carryforwards for federal income tax purposes that expire at various dates through 2020. A portion of these carryforward items is subject to certain limitations. United Therapeutics does not believe that the limitations will cause the net operating loss and general business credit carryforwards to expire unused.

Summary of Critical Accounting Policies

Marketable Investments

United Therapeutics invests portions of its cash in marketable debt securities. Due to United Therapeutics' intent and ability to hold these investments until their maturities, they are reported at their amortized cost in the consolidated balance sheets. Had these investments been reported at their current fair values, United Therapeutics would have reported a net unrealized investment loss of approximately \$793,000 for the year ended December 31, 2001 and a net unrealized investment gain of approximately \$3,000 for the year ended December 31, 2000.

Inventory Capitalization

United Therapeutics capitalizes inventory costs associated with the synthesis and manufacture of Remodulin prior to regulatory approval, based on management's judgment of probable future commercialization. United Therapeutics would be required to expense previously capitalized costs related to pre-approval inventory upon a change in such judgment, due to, among other factors, a decision denying approval of the product candidate by the necessary regulatory bodies. At December 31, 2001, capitalized inventory related to Remodulin totaled \$3.4 million.

Stock Options

United Therapeutics applies the principles of APB No. 25 in accounting for its stock options issued to its employees. Had it applied the principles of SFAS No. 123 for its employee options, its net loss for the years ended December 31, 2001, 2000 and 1999 would have increased by \$13.0 million, \$42.5 million and \$1.3 million, respectively.

Investments in Affiliates

The equity method of accounting is used to account for most investments in United Therapeutics' affiliates. The equity method of accounting generally requires United Therapeutics to report its share of the affiliates' net losses or profits in its financial statements, but does not require that assets, liabilities, revenues and expenses of the affiliates be consolidated with United Therapeutics' financial statements. The equity method of accounting is being applied generally due to the lack of control over these affiliates and the levels of ownership held by United Therapeutics.

Options Issued in Exchange for License

In connection with the license from Toray Industries for the sustained release formulation of beraprost, United Therapeutics agreed to grant 500,000 options to Toray upon Toray's transfer of clinical trial material for use in clinical trials in the U.S. These options will not be priced until the clinical trial material milestone has been met by Toray. Before Toray can produce the clinical trial material, it will need to complete formulation, preclinical testing

and early clinical studies. Due to the uncertainties in drug development, it is not yet known if Toray will provide the appropriate clinical trial material. Therefore, in accordance with EITF Issue No. 96-18, Accounting for Equity Instruments that are Issued to Other than Employees, these options are measured at their lowest aggregate fair value at each interim reporting date, which amount has been zero. As a result, no expense related to these options has been recorded in the consolidated financial statements.

Recent Accounting Pronouncements

In July 2001, the Financial Accounting Standards Board (the FASB) issued SFAS No. 141, *Business Combinations* (SFAS 141), and SFAS No. 142, *Goodwill And Other Intangible Assets* (SFAS 142). SFAS 141 addresses the accounting for acquisitions of businesses and is effective for acquisitions occurring on or after July 1, 2001. SFAS 142 addresses the method of identifying and measuring goodwill and other intangible assets acquired in a business combination, eliminates further amortization of goodwill, and requires periodic evaluations of impairment of goodwill balances. SFAS 142 is effective for the Company's fiscal year beginning January 1, 2002. The Company amortized \$1.1 million and \$495,000 of goodwill during the years ended December 31, 2001 and 2000, respectively. Unamortized goodwill at January 1, 2002, the date of adoption, was approximately \$7.5 million. All other unamortized intangible assets totaled \$7.9 million at January 1, 2002.

In October 2001, the FASB issued SFAS No. 144, *Accounting for Impairment or Disposal of Long-Lived Assets* (SFAS 144). The provisions of SFAS 144 require the use of a consistent accounting model for long-lived assets to be disposed of by sale, whether previously held and used or newly acquired and extend the presentation of discontinued operations to include more disposal transactions. SFAS 144 is effective for the Company's fiscal year beginning January 1, 2002.

The Company has not yet completed its assessment of the impact of the adoption of these new standards.

Recent Developments

On February 8, 2002, the FDA notified United Therapeutics that its lead product Remodulin was deemed approvable for the indication of pulmonary arterial hypertension for patients with NYHA class II-IV symptoms. Final FDA approval is subject to the FDA's agreement on the product label and United Therapeutics' agreement to perform a post marketing Phase IV clinical study to further assess Remodulin's clinical benefits in pulmonary arterial hypertension. United Therapeutics has agreed to perform the post marketing Phase IV clinical study and is currently discussing the content of the study protocol and the product label with the FDA.

ITEM 7A: QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

United Therapeutics does not believe that it has material exposure to market risk. However, a substantial portion of United Therapeutics assets are investment grade debt instruments such as securities of federal agencies which carry the direct or implied guarantee of the U.S. government and corporate debt securities. The market value of these investments fluctuates with changes in current market interest rates. In general, as rates increase, the market value of a debt instrument would be expected to decrease. The opposite is also true. To minimize such market risk, United Therapeutics has in the past and, to the extent possible, will continue in the future to hold such debt instruments to maturity at which time these instruments will be redeemed at their stated or face value (which approximates their original cost). Due to the short average duration (approximately 2 years) and the intent of holding these investments to maturity, United Therapeutics does not believe that it has material exposure to market risk. Marketable investments at December 31, 2001 were \$147.9 million and the weighted average effective interest rate was approximately 5.2 percent.

ITEM 8: FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

UNITED THERAPEUTICS CORPORATION

INDEX TO CONSOLIDATED FINANCIAL STATEMENTS

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Independent Auditors Report

The Board of Directors
United Therapeutics Corporation:

We have audited the accompanying consolidated balance sheets of United Therapeutics Corporation and subsidiaries (the Company) as of December 31, 2001 and 2000, 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, 2001. 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 of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the consolidated financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall consolidated 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 financial position of United Therapeutics Corporation and subsidiaries as of December 31, 2001 and 2000, and the results of their operations and their cash flows for each of the years in the three-year period ended December 31, 2001, in conformity with accounting principles generally accepted in the United States of America.

KPMG LLP

McLean, Virginia
February 22, 2002

UNITED THERAPEUTICS CORPORATION

Consolidated Balance Sheets

| | December 31, | |
|--|----------------|----------------|
| | 2001 | 2000 |
| Assets | | |
| Current assets: | | |
| Cash and cash equivalents | \$ 24,372,675 | \$ 200,935,244 |
| Marketable investments (note 9) | 31,676,959 | 14,483,637 |
| Accounts receivable, net of allowance of \$197,742 and \$98,281 for 2001 and 2000, respectively | 1,451,536 | 1,534,362 |
| Interest receivable | 2,772,147 | |
| Prepaid expenses | 916,641 | 1,077,608 |
| Inventories (note 2) | 6,024,574 | 2,896,469 |
| Other current assets | 1,788,149 | 1,192,784 |
| | <hr/> | <hr/> |
| Total current assets | 69,002,681 | 222,120,104 |
| | <hr/> | <hr/> |
| Property, plant, and equipment, net (note 2) | 6,403,414 | 5,939,036 |
| Certificate of deposit | 605,135 | 571,445 |
| Goodwill and other intangible assets, net (notes 2 and 11) | 15,365,275 | 17,549,224 |
| Marketable investments (note 9) | 116,249,015 | |
| Investments in affiliates (note 11) | 4,341,835 | 4,348,693 |
| Other | 154,016 | 116,482 |
| | <hr/> | <hr/> |
| Total assets | \$ 212,121,371 | \$ 250,644,984 |
| | <hr/> | <hr/> |
| Liabilities and Stockholders Equity | | |
| Current liabilities: | | |
| Accounts payable | \$ 6,348,952 | \$ 5,273,445 |
| Accounts payable to affiliate (note 3) | 318,156 | 678,897 |
| Accrued expenses (note 13) | 3,453,626 | 4,522,550 |
| Due to affiliate (note 11) | 500,000 | 946,497 |
| Current portion of notes and leases payable (note 8) | 101,794 | 70,803 |
| Other current liabilities | 75,339 | |
| | <hr/> | <hr/> |
| Total current liabilities | 10,797,867 | 11,492,192 |
| | <hr/> | <hr/> |
| Notes and leases payable, excluding current portion (note 8) | 1,836,406 | 1,835,960 |
| Due to affiliate (note 11) | 3,079,111 | 2,385,229 |
| Other liabilities | 8,863 | 193,821 |
| | <hr/> | <hr/> |
| Total liabilities | 15,722,247 | 15,907,202 |
| | <hr/> | <hr/> |
| Commitments and contingencies (notes 5 and 10) | | |
| Stockholders equity (note 6): | | |
| Preferred stock, par value \$.01, 10,000,000 shares authorized at December 31, 2001 and 2000, no shares issued | | |
| Series A junior participating preferred stock, par value \$.01, 100,000 authorized at December 31, 2001 and 2000, no shares issued | | |

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| | | |
|---|-----------------------|-----------------------|
| Common stock, par value \$.01, 100,000,000 shares authorized at December 31, 2001 and 2000, 20,751,820 and 20,740,086 shares issued at December 31, 2001 and 2000, respectively, 20,225,220 and 20,434,086 shares outstanding at December 31, 2001 and 2000, respectively | 207,519 | 207,401 |
| Additional paid-in capital | 365,235,398 | 363,484,585 |
| Accumulated deficit | (162,169,637) | (124,881,888) |
| Treasury stock at cost, 526,600 and 306,000 shares at December 31, 2001 and 2000, respectively | (6,874,156) | (4,072,316) |
| | <u>196,399,124</u> | <u>234,737,782</u> |
| Total stockholders' equity | 196,399,124 | 234,737,782 |
| | <u>\$ 212,121,371</u> | <u>\$ 250,644,984</u> |
| Total liabilities and stockholders' equity | \$ 212,121,371 | \$ 250,644,984 |

See accompanying notes to consolidated financial statements.

UNITED THERAPEUTICS CORPORATION

Consolidated Statements of Operations

| | Years Ended December 31, | | |
|---|--------------------------|-----------------------|-----------------------|
| | 2001 | 2000 | 1999 |
| Revenues: | | | |
| Sales | \$ 5,094,171 | \$ 1,483,058 | \$ 225,245 |
| Sales to affiliates (note 3) | 541,200 | 416,200 | |
| Grant revenue | 96,331 | 150,000 | 211,250 |
| Total revenues | 5,731,702 | 2,049,258 | 436,495 |
| Operating expenses: | | | |
| Research and development | 32,590,191 | 70,187,748 | 30,715,255 |
| General and administrative | 13,558,772 | 11,719,578 | 4,977,983 |
| Sales and marketing | 3,384,376 | 16,566 | |
| Cost of sales | 3,137,152 | 1,626,051 | 164,147 |
| Total operating expenses | 52,670,491 | 83,549,943 | 35,857,385 |
| Loss from operations | (46,938,789) | (81,500,685) | (35,420,890) |
| Other income (expense): | | | |
| Interest income | 10,020,530 | 10,693,239 | 1,925,326 |
| Interest expense | (172,718) | (120,035) | (57,744) |
| Equity loss in affiliate | (257,243) | | |
| Write-down of investment (note 4) | | (4,789,592) | |
| Other net | 60,471 | 108,583 | 50,064 |
| Total other income, net | 9,651,040 | 5,892,195 | 1,917,646 |
| Net loss before income tax | (37,287,749) | (75,608,490) | (33,503,244) |
| Income tax (note 7) | | | (3,454) |
| Net loss | (\$37,287,749) | (\$75,608,490) | (\$33,506,698) |
| Net loss per common share basic and diluted | (\$1.84) | (\$3.93) | (\$2.51) |
| Weighted average number of common shares outstanding basic and diluted | 20,285,732 | 19,237,473 | 13,374,294 |

See accompanying notes to consolidated financial statements.

UNITED THERAPEUTICS CORPORATION

Consolidated Statements of Stockholders Equity

| | Common Stock | | Additional Paid-in Capital | Treasury Stock | Accumulated Deficit | Total |
|--|--------------|------------|----------------------------------|-------------------|------------------------|---------------|
| | Shares | Amount | | | | |
| Balance, December 31, 1998 | 10,115,597 | \$ 101,156 | \$ 32,341,370 | \$ | (\$15,766,700) | \$ 16,675,826 |
| Issuance of common stock through private sales | 111,370 | 1,114 | 1,989,251 | | | 1,990,365 |
| Issuance of common stock through initial public offering | 4,500,000 | 45,000 | 48,826,737 | | | 48,871,737 |
| Issuance of common stock to underwriters for over-allotment shares | 675,000 | 6,750 | 7,507,759 | | | 7,514,509 |
| Stock issued for exclusive license agreement | 500,000 | 5,000 | 8,995,000 | | | 9,000,000 |
| Stock issued for acquisition of SynQuest, Inc. | 101,251 | 1,012 | 2,802,051 | | | 2,803,063 |
| Options issued in exchange for services | | | 216,748 | | | 216,748 |
| Net loss | | | | | (33,506,698) | (33,506,698) |
| Balance, December 31, 1999 | 16,003,218 | 160,032 | 102,678,916 | | (49,273,398) | 53,565,550 |
| Issuance of common stock through private sales | 3,800,000 | 38,000 | 209,006,858 | | | 209,044,858 |
| Stock issued for acquisition of Cooke Pharma, Inc. | 294,635 | 2,946 | 15,668,984 | | | 15,671,930 |
| Stock issued for acquisition of Medicomp, Inc. and Telemedical Procedures, LLC | 257,142 | 2,571 | 11,860,274 | | | 11,862,845 |
| Stock issued for investment in Synergy Pharmaceuticals, Inc. | 21,978 | 220 | 1,729,449 | | | 1,729,669 |
| Adjustment to SynQuest, Inc. escrow | (5,198) | (52) | (148,036) | | | (148,088) |
| Options issued in exchange for services | | | 1,310,270 | | | 1,310,270 |
| Stock issued for exclusive license agreement | 200,000 | 2,000 | 18,768,000 | | | 18,770,000 |
| Stock issued in exchange for services | 16,249 | 163 | 1,071,520 | | | 1,071,683 |
| Exercise of stock options | 152,062 | 1,521 | 1,538,350 | | | 1,539,871 |
| Purchases of treasury stock | | | | (4,072,316) | | (4,072,316) |
| Net loss | | | | | (75,608,490) | (75,608,490) |
| Balance, December 31, 2000 | 20,740,086 | 207,401 | 363,484,585 | (4,072,316) | (124,881,888) | 234,737,782 |
| Stock issued in exchange for services | 9,868 | 99 | 749,901 | | | 750,000 |
| Options issued in exchange for services | | | 995,332 | | | 995,332 |
| Exercise of stock options | 1,866 | 19 | 5,580 | | | 5,599 |
| Purchases of treasury stock | | | | (2,801,840) | | (2,801,840) |
| Net loss | | | | | (37,287,749) | (37,287,749) |

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| | | | | | | |
|----------------------------|-------------------|-------------------|-----------------------|----------------------|------------------------|-----------------------|
| Balance, December 31, 2001 | <u>20,751,820</u> | <u>\$ 207,519</u> | <u>\$ 365,235,398</u> | <u>(\$6,874,156)</u> | <u>(\$162,169,637)</u> | <u>\$ 196,399,124</u> |
|----------------------------|-------------------|-------------------|-----------------------|----------------------|------------------------|-----------------------|

See accompanying notes to consolidated financial statements.

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UNITED THERAPEUTICS CORPORATION

Consolidated Statements of Cash Flows

| | Years Ended December 31, | | |
|--|--------------------------|----------------|----------------|
| | 2001 | 2000 | 1999 |
| Cash flows from operating activities: | | | |
| Net loss | (\$37,287,749) | (\$75,608,490) | (\$33,506,698) |
| Adjustments to reconcile net loss to net cash used in operating activities: | | | |
| Depreciation and amortization | 2,821,154 | 913,986 | 311,150 |
| Loss on disposals of equipment | 26,564 | 24,813 | 9,168 |
| Provision for bad debt | 279,526 | | |
| Stock issued for exclusive license agreements | | 18,770,000 | 9,000,000 |
| Stock and options issued in exchange for services | 995,332 | 2,381,953 | 216,748 |
| Acquired in-process research and development | | 16,863,700 | |
| Write-down of investment | | 4,789,592 | |
| Write-down of inventory | 284,393 | | |
| Write-down of intangibles | 221,414 | | |
| Amortization of premiums and discounts on marketable investments | 693,631 | (993,722) | (1,561,899) |
| Equity loss in affiliate | 257,243 | | |
| Changes in operating assets and liabilities, net of effects of acquisitions: | | | |
| Accounts receivable | (196,700) | (398,193) | (79,554) |
| Interest receivable | (2,772,147) | | |
| Inventories | (4,035,729) | (2,115,049) | |
| Prepaid expenses | 160,967 | (509,131) | (69,679) |
| Other current assets | (595,365) | 242,271 | (221,405) |
| Other noncurrent assets | (37,534) | (10,723) | (91,942) |
| Accounts payable | 1,825,507 | 2,530,274 | 221,710 |
| Accrued expenses | (1,068,924) | 1,908,217 | 2,068,606 |
| Accounts payable due to affiliate | (360,741) | | |
| Payroll taxes withheld | | (64,537) | (4,263) |
| Other liabilities | (109,619) | 160,192 | 14,903 |
| Net cash used in operating activities | (38,898,777) | (31,114,847) | (23,693,155) |
| Cash flows from investing activities: | | | |
| Purchases of property, plant, and equipment | (687,293) | (639,875) | (1,994,620) |
| Proceeds from disposals of property, plant and equipment | 40,000 | | 2,350 |
| Investment in Northern Therapeutics, Inc. | | (1,000,000) | |
| Investment in Synergy Pharmaceuticals, Inc. | | (3,059,919) | |
| Acquisition of SynQuest, net of cash acquired | | | (312,626) |
| Acquisition of Cooke Pharma, net of cash acquired | | 194,023 | |
| Acquisition of Medicomp, net of cash acquired | | (8,131,432) | |
| Purchases of marketable investments and certificates of deposit | (152,519,965) | (56,658,901) | (114,325,864) |
| Maturities of marketable investments | 18,385,765 | 76,453,000 | 92,565,000 |
| Net cash provided by (used in) investing activities | (134,781,493) | 7,156,896 | (24,065,760) |

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| | | | |
|--|-----------------------------|-----------------------------|-----------------------------|
| Cash flows from financing activities: | | | |
| Proceeds from issuance of common stock | | 209,044,858 | 58,376,611 |
| Purchases of common stock | (2,801,840) | (4,072,316) | |
| Deferred offering costs | | 159,418 | (159,418) |
| Proceeds from exercise of stock options | 5,599 | 1,539,871 | |
| Proceeds from notes payable | | | 1,798,000 |
| Payments of principal on notes payable | (17,292) | (16,658) | (742,907) |
| Principal payments under capital lease obligations | (68,766) | (41,861) | (12,555) |
| | <u> </u> | <u> </u> | <u> </u> |
| Net cash provided by (used in) financing activities | (2,882,299) | 206,613,312 | 59,259,731 |
| | <u> </u> | <u> </u> | <u> </u> |
| Net increase (decrease) in cash and cash equivalents | (176,562,569) | 182,655,361 | 11,500,816 |
| Cash and cash equivalents, beginning of year | 200,935,244 | 18,279,883 | 6,779,067 |
| | <u> </u> | <u> </u> | <u> </u> |
| Cash and cash equivalents, end of year | \$ 24,372,675 | \$ 200,935,244 | \$ 18,279,883 |
| | <u> </u> | <u> </u> | <u> </u> |

Continued

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UNITED THERAPEUTICS CORPORATION

Consolidated Statements of Cash Flows, continued

| | Years ended December 31, | | |
|---|--------------------------|--------------|-------------|
| | 2001 | 2000 | 1999 |
| Supplemental schedule of noncash investing and financing activities: | | | |
| Stock issued for investment in Synergy Pharmaceuticals, Inc. | \$ | \$ 1,729,669 | \$ |
| Stock issued for acquisition of SynQuest, Inc. | \$ | \$ | \$2,803,063 |
| Stock issued for acquisition of Cooke Pharma, Inc. | \$ | \$15,671,930 | \$ |
| Stock issued for acquisition of Medicomp, Inc. and Telemedical Procedures LLC | \$ | \$11,862,845 | \$ |
| Equipment acquired under a capital lease | \$117,495 | \$ | \$ 16,629 |
| Supplemental cash flow information cash paid for interest | \$154,910 | \$ 119,018 | \$ 57,744 |

See accompanying notes to consolidated financial statements.

UNITED THERAPEUTICS CORPORATION

Notes to Consolidated Financial Statements

1. Organization and Business Description

United Therapeutics Corporation (the Company) is a biotechnology company focused on commercialization of unique therapeutic products to treat patients with chronic and life-threatening cardiovascular, infectious and oncological diseases. The Company was incorporated on June 26, 1996 under the laws of the State of Delaware and has four wholly owned subsidiaries: Lung Rx, Inc., Unither Pharmaceuticals, Inc. (UPI), Unither Telemedicine Services Corp. (UTSC), and United Therapeutics Europe, Ltd.

In February 2002, the FDA informed the Company that Remodulin was approvable for the indication of pulmonary arterial hypertension in patients with NYHA class II-IV symptoms. Final approval is conditioned on the FDA's acceptance of the product label and the Company's agreement to perform a post marketing Phase IV clinical study to further assess the clinical benefits of Remodulin. The Company has agreed to perform the post marketing Phase IV clinical study and negotiations for final approval are underway. Planning is also underway for the clinical study of Remodulin in critical limb ischemia and metastatic lung cancer. Preclinical development of the iminosugar UT231B is nearing completion and planning is underway for its first study in patients with hepatitis C for late 2002.

The Company has trained over 400 physicians in the use of its arginine supplementation therapy, a product called the HeartBar, in the dietary management of vascular disease. In addition, the Company now produces a double-strength version of its HeartBar, called HeartBar Plus, with six grams of arginine.

The Company has grown its telemedicine business, operating under the name Medicomp, to over 2,000 telecardiology procedures per month. Medicomp was also awarded a contract to provide telecardiology monitors for astronauts on the International Space Station.

2. Summary of Significant Accounting Policies

Principles of Consolidation

The consolidated financial statements include the financial statements of United Therapeutics Corporation and its wholly owned subsidiaries. All significant intercompany balances and transactions are eliminated in consolidation.

Cash Equivalents

Cash equivalents consist of highly liquid investments with original maturities of three months or less. Cash equivalents consist of money market funds, commercial paper, and certificates of deposit and amount to approximately \$24.4 million and \$200.9 million at December 31, 2001 and 2000, respectively.

Inventories

The Company manufactures certain compounds and purchases medical supplies for use in its ongoing clinical trials. The Company purchases components and assembles cardiac monitoring equipment. The Company contracts with a third party manufacturer to make the HeartBar products. These inventories are accounted for under the first-in, first-out method. At December 31, 2001 and 2000, inventories consisted of the following:

| | December 31, | |
|---|--------------|--------------|
| | 2001 | 2000 |
| Remodulin | \$ 3,404,731 | \$ 1,775,047 |
| Medical supplies | 1,283,500 | 280,771 |
| Raw chemical materials | | 30,015 |
| Cardiac monitoring equipment components | 543,792 | 485,931 |
| HeartBar products | 792,551 | 324,705 |

\$6,024,574

\$2,896,469

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Property, Plant, and Equipment

Property, plant, and equipment are stated at cost. Depreciation is computed using the straight-line method over the estimated useful lives of the assets. Estimated useful lives of the assets are as follows:

| | |
|---|--|
| Building and improvements | 39 years |
| Furniture and equipment | 3-10 years |
| Holter and event cardiac monitoring systems | 5 years |
| Leasehold improvements | Life of the lease or asset, whichever is shorter |

Property, plant, and equipment at December 31, 2001 and 2000 consisted of the following:

| | December 31, | |
|-------------------------------------|--------------|--------------|
| | 2001 | 2000 |
| Land | \$ 421,431 | \$ 421,431 |
| Buildings and improvements | 2,722,416 | 2,516,264 |
| Holter and event monitor systems | 2,095,525 | 1,457,248 |
| Furniture and equipment | 2,530,754 | 2,035,752 |
| | 7,770,126 | 6,430,695 |
| Less accumulated depreciation | (1,366,712) | (491,659) |
| Property, plant, and equipment, net | \$ 6,403,414 | \$ 5,939,036 |

Research and Development

Research and product development costs are expensed as incurred. Acquired in-process research and development is expensed if technological feasibility has not been demonstrated and there is no alternative use for the in-process technology.

Licensed Technology

Costs incurred in obtaining the license rights to technology in the research and development stage and that have no alternative future uses are expensed as incurred and in accordance with the specific contractual terms of the applicable license agreements.

Income Taxes

Income taxes are accounted for in accordance with Financial Accounting Standards Board Statement No. 109 (SFAS No. 109). Under the asset and liability method of SFAS No. 109, deferred tax assets and liabilities are determined based on the differences between the financial reporting and the tax bases of assets and liabilities and are measured using the tax rates and laws that are expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled.

Marketable Investments

The Company's marketable investments are considered held-to-maturity securities. Held-to-maturity securities are those securities which the Company has the ability and intent to hold until maturity and are recorded at amortized cost, adjusted for the amortization or accretion of premiums or discounts. 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.

Goodwill and Other Intangible Assets

Goodwill represents the excess of purchase price and related costs over the value assigned to the net tangible and intangible assets of the business acquired. Goodwill resulting from the purchase of SynQuest, Inc. was amortized using the straight-line method over five years. Goodwill resulting from the purchase of Medicomp was amortized using the straight-line method over a twenty-year life. Other intangible assets resulting from these purchases relate to covenants not to compete, employment agreements, technology, patents, and trade names and were determined on the basis of independent valuations. The other intangibles are being amortized over three to eighteen years, consistent with the terms of the underlying agreements. Total amortization expense was approximately \$1,963,000, \$602,000, and \$154,000 for the years ended December 31, 2001, 2000, and 1999, respectively.

Periodically, the Company reviews the recoverability of goodwill and other intangible assets. The measurement of possible impairment is based primarily on the ability to recover the balance of the goodwill and other intangible assets from expected future operating cash flows on an undiscounted basis. Impairment losses are recognized when expected future cash flows are estimated to be less than the asset's carrying value. In management's opinion, no material impairment exists at December 31, 2001.

Goodwill and other intangibles at December 31, 2001 and 2000 were comprised as follows:

| | December 31, | |
|-------------------------------|----------------------|----------------------|
| | 2001 | 2000 |
| Goodwill | \$ 9,072,419 | \$ 9,381,676 |
| Noncompete agreement | 273,000 | 273,000 |
| Trademarks and patents | 7,230,473 | 7,214,879 |
| Technology | 1,435,993 | 1,435,993 |
| | <u>18,011,885</u> | <u>18,305,548</u> |
| Less accumulated amortization | (2,646,610) | (756,324) |
| | <u>\$ 15,365,275</u> | <u>\$ 17,549,224</u> |

During the year ended December 31, 2001, the Company wrote down its net workforce-in-place by approximately \$221,000 related to employees who terminated from service in 2001. Workforce-in-place is classified as goodwill in the table shown above.

Investments in Affiliates

The investments in affiliate represent the Company's investments in Northern Therapeutics, Preventis, and WonderClick (note 11) which are being accounted for on the equity method of accounting. Also represented in this account is the investment in Synergy (note 4) which is being accounted for on the cost method.

Fair Value of Financial Instruments

The carrying amounts of cash and cash equivalents, marketable investments, accounts receivables, accounts payable, and accrued expenses, approximate fair value due to their short maturities. The carrying amount of the Company's notes payable approximate fair value, since they are adjustable rate notes.

Loss per Common Share

Basic loss per common share is computed by dividing net loss by the weighted average number of shares of common stock outstanding during the year. Common stock equivalents for the year ended December 31, 2001 consisted of options and warrants totaling approximately 164,000 shares. Common stock equivalents are not included in the calculation as their effect would be anti-dilutive. Accordingly, diluted loss per common share is the same as basic loss per common share.

Use of Estimates

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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 disclosure of contingent assets and liabilities at the date of the financial statements. Estimates also affect the reported amounts of revenue and expenses during the reporting period. Actual results could differ from those estimates.

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Stock Option Plan

The Company applies the provisions of SFAS No. 123, Accounting for Stock-Based Compensation, to account for its stock options. SFAS No. 123 allows companies to continue to apply the provisions of APB Opinion No. 25 and provide pro forma net income and pro forma earnings per share disclosures for employee stock options granted as if the fair-value-based method defined in SFAS No. 123 had been applied. The Company has elected to apply the provisions of APB Opinion No. 25 and provide the pro forma disclosures of SFAS No. 123. The Company accounts for non-employee stock option awards in accordance with SFAS No. 123.

Revenues

Revenues are recognized in the financial statements only when considered realizable and earned.

Sales from the synthesis and manufacture of complex compounds by the Company's manufacturing division were generally made under fixed price agreements. The Company recognizes revenue based on the percentage-of-completion method. Billings in excess of amounts recognized as revenues are reported as deferred revenues. Losses on these contracts, if any, are recognized as soon as they are anticipated.

Sales from HeartBar products are recognized when delivered to customers. If the products are consigned, sales are recognized in the period that the consignee has sold the product. Product sales are recorded net of allowances for estimated returns and rebates.

Sales of Holter and event monitor systems are recognized when delivered to customers. Revenue from related monitoring analysis services is recognized when the service is performed and the analysis has been delivered.

Sales of Remodulin and Remodulin delivery pumps and related supplies are recognized when delivered to customers.

Grant and contract revenues are recognized on the percentage-of-completion basis.

Deferred Offering Costs

Costs incurred in connection with the Company's planned sale of common stock in a private placement were deferred and reported as assets in the accompanying balance sheets. Upon successful completion of the sale, these deferred offering costs were netted against the additional paid-in capital resulting from the sale.

Treasury Stock

Treasury stock is reported at cost, including commissions and fees.

Concentrations of Suppliers

The Company currently relies on a single supplier to test the purity and stability of each batch of Remodulin and a single supplier for the delivery device to administer Remodulin to patients. Additionally, Remodulin is formulated, packaged and warehoused by a single formulator. Although there are a limited number of companies that could replace each of these suppliers, management believes that other suppliers could provide similar services and materials. A change in suppliers, however, could cause a delay in distribution of Remodulin, and in the conduct of clinical trials and commercial launch, which would adversely affect the Company's research and development efforts, and future sales efforts.

The company relies solely on Toray to manufacture beraprost under an exclusive licensing agreement (see note 4). If this agreement was terminated, the Company would have no other source for this compound.

The Company relies solely on one manufacturer to manufacture its HeartBar products. Although there are a limited number of companies that could replace this supplier, management believes that other suppliers could provide similar services and materials. A change in supplier, however, could cause a delay in the manufacture and distribution of HeartBar which would adversely affect the Company's sales efforts.

Reclassifications

Certain amounts in the 2000 consolidated financial statements were reclassified to conform to the 2001 presentation.

3. Related Party Transactions

Office Leases

In December 2001, a subsidiary of the Company leased office space from Beacon Projects, Inc., a company owned by the Chairman and CEO of the Company. Rents due under this two-year lease will total \$144,000 and are paid in monthly installments.

In March 1999 and December 2000, Unither Telemedicine Services Corporation entered into lease agreements for office space from Beacon Projects, Inc. The Company incurred expenses of approximately \$44,000, \$44,000, and \$28,000 during the years ended December 31, 2001, 2000, and 1999, respectively. These leases were terminated in June 2001.

Legal Services

During 2001, 2000, and 1999, the Company obtained professional services from a law firm affiliated with the General Counsel and the Chairman and CEO. The Company incurred expenses of approximately \$212,000, \$783,000 and \$338,000 during the years ended December 31, 2001, 2000, and 1999, respectively, for services rendered by the law firm. The Chairman and CEO does not receive compensation from the law firm. In June 2001, the General Counsel joined the Company as a full time employee and the arrangement with the law firm for professional services was terminated.

Research Agreement

During 1998, the Company entered into a cooperative drug discovery agreement with William Harvey Research Limited (WHR) (see note 5). The Chairman and CEO of the Company is a volunteer unpaid President of William Harvey Medical Research Foundation, an affiliate of WHR. Payments made to WHR were approximately \$205,000, \$347,000 and \$258,000 for the years ended December 31, 2001, 2000, and 1999, respectively.

Receivable from Employees

At December 31, 2001 and 2000, the Company had interest and non-interest bearing advances totaling approximately \$40,000 and \$210,000, respectively, due from employees. The advances are classified as other current assets in the accompanying consolidated balance sheets and will be repaid to the Company in 2002.

Iminosugar Program

The Company reported expenses of approximately \$3.5 million and \$2.4 million to Synergy Pharmaceuticals, Inc. (see note 4) during the years ended December 31, 2001 and 2000, respectively, of which approximately \$318,000 and \$679,000 were payable at December 31, 2001 and 2000, respectively, for contract research services. Additionally, the Company reported revenues of approximately \$366,200 and \$416,000 during the years ended December 31, 2001 and 2000, respectively, for chemical synthesis and manufacturing services provided to Synergy.

Marketing and Consulting Agreements

During 2001, the Company entered into a marketing agreement with a company affiliated with Raymond Kurzweil who was appointed as a Director of the Company effective January 3, 2002. The value of the agreement is \$30,000 annually. The company also entered into an agreement in 2001 with Raymond Kurzweil to provide strategic consulting services in the field of telemedicine. The value of the agreement is \$10,000 annually. In 2001, the Company paid a total of \$25,000 under these agreements.

4. License Agreements

Glaxo Wellcome Assignment

In January 1997, Glaxo Wellcome Inc. assigned to the Company patents and patent applications for the use of the stable prostacyclin analog UT-15 (now known as Remodulin), for the treatment of pulmonary hypertension and congestive heart failure. Glaxo Wellcome has a right to negotiate a license from the Company if the Company decides to license any part of the marketing rights to a third party. Glaxo Wellcome waived this right with respect to the agreement with MiniMed described below. Under the agreement, Glaxo Wellcome is entitled to certain royalties from the Company for a period of ten years from the date of the first commercial sale of any product containing Remodulin (see note 5). If the Company grants to a third party any license to Remodulin, Glaxo Wellcome is also entitled to a percentage of all consideration payable

to the Company by such licensee. The Company is responsible for all patent prosecution and maintenance for Remodulin.

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Medtronic MiniMed Inc.

The Company entered into an agreement with Medtronic MiniMed Inc. (formerly MiniMed Inc.) in September 1997 to collaborate in the design, development, and implementation of therapies to treat pulmonary hypertension and peripheral vascular disease utilizing MiniMed products with Remodulin. The term of the agreement is for seven years after the FDA grants a new drug approval for Remodulin and will be automatically extended for additional 12-month periods unless otherwise terminated. The agreement is subject to early termination in the event of a material breach or bankruptcy of either party. The Company and Medtronic MiniMed have established a Management Committee comprised of two representatives from each company to implement the agreement. The guidelines implementing the agreement provide that the Company will purchase pumps and supplies from Medtronic MiniMed at a discount off of Medtronic MiniMed's list prices from time to time. In the event that there are any discoveries or improvements arising out of work performed under the agreement, the parties will have joint ownership of those discoveries or improvements. The guidelines require the Company to purchase its Remodulin infusion pumps exclusively from Medtronic MiniMed unless Medtronic MiniMed's infusion pumps fail to receive certain government approvals.

Toray Industries Licenses

In September 1998, the Company entered into an agreement with Toray Industries, Inc. obtaining the exclusive right to develop and market immediate release formulations of beraprost in the United States and Canada for the treatment of pulmonary vascular disease, including pulmonary hypertension, plus certain additional rights of first refusal for other products, therapies or territories. In exchange, the Company paid Toray cash and 166,666 shares of common stock, and granted Toray an option to purchase an additional 166,666 shares of common stock at an exercise price of \$9.00 per share. The Company also agreed to pay Toray milestone payments of up to \$750,000. In March 1999, the Company entered into an agreement with Toray obtaining the exclusive right to develop and market immediate release formulations of beraprost in the United States and Canada for the treatment of peripheral vascular disease. The Company paid Toray cash and 500,000 shares of common stock and agreed to pay Toray milestone payments of up to \$750,000. The stock was valued at \$9,000,000 (\$18.00 per share) by the Company based on recent sales at \$18.00 per share.

In June 2000, the Company entered into an agreement with Toray Industries, Inc. obtaining the exclusive right to develop and market sustained release formulations of beraprost in the United States and Canada for the treatment of all vascular indications (including cardiovascular indications). In exchange, the Company paid Toray \$1.0 million in cash and 200,000 shares of common stock of United Therapeutics valued at approximately \$18.8 million. In addition, the Company agreed to grant Toray an option to purchase 500,000 shares of common stock upon Toray's delivery of clinical trial material with an exercise price based on the average of closing market prices during the month preceding delivery of clinical trial material. Such delivery has not yet occurred. The Company also agreed to pay Toray milestone payments of up to \$750,000. License fees under these agreements were expensed as research and development and totaled none, \$19.8 million, and \$9.1 million for the years ended December 31, 2001, 2000, and 1999, respectively.

Pursuant to the agreements, the Company has agreed to pay all costs and expenses associated with undertaking clinical trials, obtaining regulatory approvals and commercializing beraprost in the United States and Canada for the treatment of pulmonary hypertension, peripheral vascular disease and all vascular and cardiovascular indications. Toray has retained all manufacturing rights for beraprost. The Company has agreed to purchase beraprost solely from Toray at specified prices based on volume. The agreements each set forth a product development schedule. In the event that development by the Company falls significantly behind the schedule specified in either agreement, Toray may terminate that agreement. Furthermore, the Company is responsible under the agreements for achieving minimum annual product net sales as determined in advance by mutual agreement and in the case of the first two years of commercial sales, minimum net sales of \$2.5 million and \$5 million. In the event that the Company is unable to meet any minimum annual net sales requirements for two consecutive years, Toray may convert the exclusive license to a non-exclusive license. The Company would then be required to share any product marketing rights approved by the FDA with a third-party licensee chosen by Toray. Each agreement expires 10 years following FDA approval of beraprost for the particular disease indication. The Company may extend each agreement for unlimited one-year periods with Toray's consent.

The Company conducted a Phase III clinical trial program for beraprost to treat early-stage peripheral vascular disease. The results were analyzed in October 2001. Beraprost did not meet its primary endpoint of improvement in total walking distance. As a result, the Company discontinued development of the immediate release formulations of Beraprost for early stage peripheral vascular disease and pulmonary arterial hypertension. The Company anticipates that the sustained release formulation will demonstrate greater efficacy. The sustained release formulation is currently in Phase I testing in Japan.

Shearwater Polymers Agreement

In September 1999, the Company entered into an agreement with Shearwater Polymers, Inc. The agreement grants to the Company the exclusive right to Shearwater's know-how for the design, development, production, and use of a technology known as pegylation to develop and produce sustained release prostacyclin molecules for the possible treatment of pulmonary hypertension, peripheral vascular disease, stroke, heart disease, cancer, and related diseases worldwide. In exchange, the Company paid Shearwater \$100,000 in cash and agreed to pay Shearwater milestone payments of up to \$2,900,000. Milestone payments will come due upon the achievement of certain product development goals set forth in the agreement and are expected to be paid over a period of approximately six years. The Company also agreed to pay royalties ranging from 2 to 4 percent of net sales from developed products. Minimum annual royalties of \$1,000,000 are required commencing with the thirteenth month following government approval of a developed product. License fees under this agreement were expensed as research and development in the year ended December 31, 1999 and totaled \$100,000.

Under United Therapeutics' agreement with Shearwater, any inventions that relate to the combination of prostacyclin and the pegylation technology, including production methods and therapeutic methods for the treatment of any indication, will be owned solely by United Therapeutics, and any inventions relating to non-prostacyclin pegylation methods such as drug formulation or delivery will be owned solely by Shearwater. Both United Therapeutics and Shearwater have filed for U.S. patent applications relating to their respective inventions and each is responsible for prosecuting and maintaining its patent portfolio.

Synergy Pharmaceuticals, Inc.

In March 2000, Unither Pharmaceuticals, Inc. (Unither), a wholly owned subsidiary of United Therapeutics, entered into a license agreement with Synergy Pharmaceuticals, Inc. (Synergy) to obtain from Synergy the exclusive worldwide rights to certain patents relating to anti-viral iminosugar compounds. Unither paid Synergy a \$100,000 license fee which was expensed as research and development. The iminosugar agreement conditionally requires that Unither pay Synergy milestone payments of up to \$22.2 million for each FDA-approved product plus royalties ranging from 6 percent to 12.25 percent, subject to reductions, based on net sales. Additionally, Unither acquired 15 percent of the outstanding stock of Synergy for a total of \$5.0 million. The purchase price was paid with \$3.0 million in cash and 21,978 shares of common stock of United Therapeutics valued at approximately \$2.0 million. As part of these transactions, Unither received an exclusive option to purchase the remaining stock of Synergy at its fair value to be determined in the future in accordance with the terms of the contract. This investment of approximately \$4.8 million is accounted for under the cost method.

In November 2000, Unither and Synergy amended the exclusive license agreement to include the development of new analogs of the licensed compounds. It was determined that new analogs could potentially be developed that had improved safety and efficacy profiles over the originally licensed compounds. As part of the amendments, Unither and Synergy agreed to reduce the milestone and royalty payments by one-half for any approved products which may result from the new analogs. Additionally, Synergy granted to Unither a warrant to purchase up to approximately 10 percent of the outstanding stock of Synergy exercisable for six years at \$0.001 per share. As a result of these developments and the amendments, the investment in Synergy was written down to zero at December 31, 2000.

Stanford University and New York Medical College

The Company's subsidiary, Unither Pharma Inc. (formerly Cooke Pharma, Inc.), has exclusively licensed patents related to amino acid based dietary supplements to enhance the level of endogenous nitric oxide in the vascular system from Stanford University and New York Medical College. The licenses cover worldwide territories and are valid for the life of the patents. In return, Unither Pharma, Inc. has agreed to pay royalties equal to one percent of net sales of amino acid based medical foods to each licensor respectively, subject to reductions. Minimum annual royalties of \$10,000 are due to each licensor.

5. Commitments

Clinical Trials and Other Research

The Company has contracted with universities and research organizations to perform clinical trials and other research related to Remodulin and other products. The Company generally pays all expenses incurred in carrying out the clinical trials and research activities. Total expenses under these agreements were approximately \$11.6 million, \$16.6 million, and \$16.6 million in 2001, 2000 and 1999, respectively. Total payments under these agreements in 2002 are not expected to exceed \$1.4 million.

Oxford University

The Company's subsidiary, Unither Pharmaceuticals, Inc., agreed to fund research conducted by the University of Oxford to develop analogs of the anti-viral compounds licensed from Synergy Pharmaceuticals. The research agreement provided for payments of up to approximately \$900,000 and will expire in September 2002. Under the agreement, Unither is required to fund the research and pay to the University of Oxford milestone payments for successfully completed clinical trials, and a royalty equal to a percentage of net sales that Unither earns from discoveries and products developed by the University of Oxford. The milestone payments and royalties are subject to reduction depending upon third-party contributions to inventions and/or third party licenses necessary to develop products.

William Harvey Research Limited

In 1998, the Company entered into a cooperative drug discovery agreement with William Harvey Research Limited (WHR) to identify and develop an antisense therapy as a potential treatment for pulmonary hypertension. The agreement may be terminated by the Company after 30 months. Under the agreement, the Company is required to pay WHR a royalty equal to a percentage of net sales and license fees that the Company earns from discoveries developed by WHR. This royalty obligation extends for 15 years or, if later, until any issued patents expire.

Imperial College

In 2000, Lung Rx entered into a research and development agreement with Imperial College of Science, Technology & Medicine and Imperial College Innovations Limited (collectively Imperial College) to develop lung lobes that can be transplanted into patients at risk of dying due to lung disease. The agreement may be terminated by the Company after the 12th and 36th months. It may also be terminated with 90 days notice by the Company if Imperial College does not meet a major milestone defined in the agreement. Under the agreement, the Company is required to pay Imperial College a royalty equal to a percentage of net sales that the Company earns from discoveries and products developed by Imperial College. This royalty obligation extends until any issued patents expire.

Milestone and Royalty Payments

The Company has in-licensed certain products under license agreements described in note 4. These agreements generally include milestone payments to be paid in cash by the Company upon the achievement of certain product development and commercialization goals set forth in each license agreement.

Total milestone payments under these license agreements may come due approximately as follows:

| Year ending December 31, | |
|---------------------------------|---------------|
| 2002 | \$ 220,000 |
| 2003 | \$ 620,000 |
| 2004 | \$ 2,420,000 |
| 2005 | \$ 6,720,000 |
| 2006 and thereafter | \$ 15,220,000 |

Additionally, certain agreements described in note 4 require the Company to pay royalties. The royalties are generally based on a percentage of net sales or other product fees earned by the Company. Royalties will become due when sales are generated and will range from 1.0 to 30.0 percent of net product revenues as defined in the respective agreements.

Employment Agreement

In April 1999, the Company executed an employment agreement with its CEO. As amended in December 2000, the agreement establishes minimum compensation and benefits for a renewing five year period, and requires the Company to issue options to the CEO at the end of each of the next five years to purchase a number of shares of common stock equal to .06 percent of the increase in the Company's market capitalization from its average in December of each year (commencing December 2000) to its average the following year. The exercise price of the options will be 110 percent of the fair market value of a share of common stock on the date of grant, or 100 percent of fair market value if the CEO owns less than 10 percent of the Company's outstanding common stock on the date of grant. If the CEO is terminated without cause or leaves with good reason, she will receive severance equal to three years of base salary plus the value of any vested options.

6. Stockholders Equity

Common Stock

The Company was originally capitalized through the issuance of 1,666,663 shares of common stock for \$.06 per share, with a par value of \$.01. In 1997, the number of authorized shares of common stock was increased from 20,000,000 shares to 50,000,000 shares.

On December 7, 1997, the Company's Board of Directors approved a one-for-two reverse stock split of the Company's common stock. All common shares and per share amounts in the accompanying financial statements have been retroactively adjusted to reflect this reverse stock split. Authorized shares and the par values of common and preferred stock were not affected.

In April 1999, the Board of Directors authorized the filing of a registration statement with the Securities and Exchange Commission for the sale of up to 6,000,000 shares of common stock. On June 17, 1999, the Company's initial public offering, which involved the sale of 4,500,000 shares of common stock at \$12.00 per share, was declared effective by the SEC. The Company closed the initial public offering on June 22, 1999 and received net proceeds, after deducting underwriting commissions and offering expenses, of approximately \$48,874,000.

In April 1999, the Company's Board of Directors and stockholders approved an amendment to the Company's Certificate of Incorporation increasing the number of authorized shares of common stock to 100,000,000 shares. On June 11, 1999, the Company increased the total number of authorized shares of common stock to 100,000,000.

In April 1999, the Company's Board of Directors approved a one-for-three reverse stock split of its outstanding common stock which was effected on June 11, 1999. Authorized shares and the par values of common and preferred stock were not affected by the reverse split. All share and per share amounts in the accompanying financial statements have been retroactively adjusted to reflect the reverse stock split for all periods presented.

On July 16, 1999, the Company closed on the sale of 675,000 over-allotment shares of common stock to its underwriters. The underwriters over-allotment option was exercised at the initial public offering price of \$12.00 per share. The net proceeds, after deducting underwriting commissions and offering expenses, were approximately \$7,515,000.

In December 1999, the Company agreed to the sale of 2,500,000 shares of common stock at \$32.00 per share in a private placement. The private placement closed and settled in January 2000. Net proceeds, after deducting commissions and offering expenses were approximately \$74.8 million. The common stock was registered for resale with the SEC in a filing that was declared effective on January 18, 2000.

In July 2000, United Therapeutics agreed to and closed on the sale of 1,300,000 shares of common stock at \$110.00 per share in a private placement. Net proceeds, after deducting commissions and certain offering expenses, were approximately \$134.3 million. The common stock was subsequently registered for resale with the SEC in a filing that was declared effective on August 4, 2000.

In February 2000, the Company agreed to fund, over two years, a United Therapeutics Chair in Pulmonary Hypertension at Columbia University with a grant of the Company's common stock. The grant was funded with the issuance of 9,868 shares of the Company's common stock in February 2000 and 9,868 shares of the Company's common stock in April 2001, all of which was valued at \$1.5 million based on the closing Nasdaq price on February 10, 2000. In February 2002, the Company and Columbia University agreed that the shares issued to Columbia University would be transferred instead to the University's pulmonary hypertension research gift account to further research the causes and cures for pulmonary hypertension.

Preferred Stock

A total of 10,000,000 shares of preferred stock with a par value of \$.01 were authorized in 1997. No preferred stock has been issued. A total of 100,000 shares of Series A Junior Participating Preferred Stock with a par value of \$.01 were authorized in 2000. No Series A Junior Participating Preferred Stock has been issued.

Shareholder Rights Plan

In December 2000, the Company's Board of Directors approved the adoption of a Shareholder Rights Plan designed to discourage takeovers that involve abusive tactics or do not provide fair value to its shareholders. The Shareholder Rights Plan provides for a dividend distribution of one Preferred Share Purchase Right (Rights) for each outstanding share of the Company's common stock. The dividend distribution was made to shareholders of record on December 29, 2000. The Rights will be exercisable only if a person or group (except for certain exempted persons or groups) acquires 15 percent or more of the Company's common stock or announces a tender offer which would result in ownership of 15 percent or more of the Company's common stock. The Rights entitle each holder of one share to purchase one one-thousandth of a share of Series A Junior Participating Preferred Stock (par value \$.01) and will expire on December 29, 2010.

Treasury Stock

On December 5, 2000, the Company's Board of Directors approved a stock repurchase program for up to three million shares of its outstanding stock. The purpose of the stock repurchase program was to help the Company achieve its long term goal of enhancing shareholder value. During the years ended December 31, 2001 and 2000, the Company repurchased 220,600 and 306,000 shares, respectively, at a total cost of approximately \$6.9 million. The repurchase program expired on December 5, 2001.

Options Issued in Exchange for Services

The Company issued options to consultants for services during 2001, 2000 and 1999. A total of 78,253 options to purchase common shares with exercise prices of \$8.97 to \$16.94, were granted in 2001. A total of 50,299 options to purchase common shares with exercise prices of \$14.48 to \$95.37, were granted in 2000. A total of 38,330 options to purchase common shares, with exercise prices of \$16.75 to \$30.12, were granted in 1999.

Employee Options

The Company's Board of Directors adopted an equity incentive plan (the Plan) effective November 12, 1997. On April 5, 1999 and April 8, 1999, the Company's Board of Directors and stockholders approved an amendment and restatement of the Plan to increase the total number of shares of common stock that may be issued pursuant to the Plan to 14,939,517 shares, including 7,939,517 shares reserved for issuance to the CEO under her employment agreement (see note 5). The Plan provides for the grant of awards, including options, stock appreciation rights, restricted stock awards and other rights as defined in the Plan, to eligible participants. Options granted under the Plan are not transferable and must generally be exercised within 10 years. The price of all options granted under the Plan must be at least equal to the fair market value of the common stock on the date of grant. With respect to any participant who owns 10 percent or more of the Company's outstanding common stock on the date of grant, the exercise price of any incentive stock option granted to that participant must equal or exceed 110 percent of the fair market value of the common stock on the date of grant and the option must not be exercisable for longer than five years. During the year ended December 31, 2001, options to purchase a total of 495,454 shares were granted under this Plan at exercise prices of \$9.20 to \$15.69. During the year ended December 31, 2000, options to purchase a total of 1,043,594 shares were granted under this Plan at exercise prices of \$14.48 to \$116.38. During the year ended December 31, 1999, options to purchase a total of 442,907 shares were granted under this Plan at exercise prices of \$12.38 to \$35.75.

Approximately 129,476 options were granted to employees during the year ended December 31, 2001 outside of the Plan with exercise prices ranging from \$9.20 to \$15.75 and a term of ten years.

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The Company applies APB Opinion No. 25 in accounting for options granted to employees and, accordingly, no compensation expense has been recognized in the financial statements with respect to such options. Had the Company determined compensation expense under SFAS No. 123 based on the fair value at the grant date for its stock options, the Company's net loss would have been increased to the pro forma amounts indicated below:

| | Years ended December 31, | | |
|--|--------------------------|------------------|-----------------|
| | 2001 | 2000 | 1999 |
| Net loss: | | | |
| As reported | \$ (37,287,749) | \$ (75,608,490) | \$ (33,506,698) |
| Pro forma | \$ (50,310,009) | \$ (118,084,955) | \$ (34,819,629) |
| Basic and diluted loss per common share: | | | |
| As reported | \$ (1.84) | \$ (3.93) | \$ (2.51) |
| Pro forma | \$ (2.48) | \$ (6.14) | \$ (2.60) |

The fair value of each option is estimated on the date of grant using the Black-Scholes option pricing model with the following weighted-average assumptions generally used for grants in 2001, 2000, and 1999 were:

| | Years ended December 31, | | |
|-------------------------|--------------------------|-----------------------|--------------------|
| | 2001 | 2000 | 1999 |
| Dividend yield | 0 percent | 0 percent | 0 percent |
| Expected volatility | 71.25 - 112.47 percent | 69.75 - 84.26 percent | 0.10 - 76 percent |
| Risk free interest rate | 3.53 - 4.95 percent | 4.98 - 6.68 percent | 6.0 - 6.55 percent |
| Expected lives | 5 years | 5-7.5 years | 7.5 years |

A summary of the status of the Company's employee stock options as of December 31, 2001, 2000, and 1999, and changes during the years then ended is presented below:

| | 2001 | | 2000 | | 1999 | |
|--|-----------|---------------------------------|-----------|---------------------------------|-----------|---------------------------------|
| | Shares | Weighted-Average Exercise Price | Shares | Weighted-Average Exercise Price | Shares | Weighted-Average Exercise Price |
| Outstanding at beginning of period | 3,156,356 | \$36.58 | 1,412,724 | \$16.87 | 878,485 | \$12.69 |
| Granted | 624,930 | 12.73 | 2,049,594 | 48.15 | 569,573 | 22.81 |
| Exercised | (1,866) | 3.00 | (147,196) | 9.76 | | |
| Forfeited | (236,241) | 21.32 | (158,766) | 35.64 | (35,334) | 8.66 |
| Canceled | (459,933) | 56.72 | | | | |
| Outstanding at end of period | 3,083,246 | \$29.93 | 3,156,356 | \$36.58 | 1,412,724 | \$16.87 |
| Options exercisable at end of period | 1,680,263 | \$40.37 | 1,213,582 | \$49.66 | 449,145 | \$11.90 |
| Weighted-average fair value of options granted during the period | \$ 9.39 | | \$ 31.84 | | \$ 16.69 | |

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In November 2001, the Compensation Committee of the Board of Directors approved a plan to allow employees to voluntarily permit a limited portion of their outstanding options to be canceled. In exchange for each canceled option, the Company will grant a new option in May 2002. The new options will be granted at the fair market price of the Company's common stock on the date that the replacement awards are issued. The program was fully implemented in 2001 and no further cancellations are anticipated. Each of the employees who participated did not have any options granted to them in the six months prior to the cancellation. Furthermore, each of the employees who participated agreed to forgo receiving any new options for a period of six months following the cancellation. No guarantees or other promises of remuneration were made to the employees who agreed to participate. In accordance with FASB Interpretation No. 44, no compensation expense will be recognized upon the grant of the replacement awards.

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The following table summarizes information about employee stock options outstanding at December 31, 2001:

| Exercise Prices | Options Outstanding | | | Options Exercisable | |
|-------------------------|---------------------|---|---------------------------------|---------------------|---------------------------------|
| | Number | Weighted-Average Remaining Contractual Life | Weighted-Average Exercise Price | Number | Weighted-Average Exercise Price |
| \$ 3.00 | | | | | |
| \$ 10.00 | 269,601 | 2.8 | \$ 7.23 | 220,572 | \$ 7.40 |
| 10.01 | | | | | |
| 20.00 | 1,871,216 | 8.3 | \$ 15.03 | 711,358 | \$ 16.09 |
| 20.01 | | | | | |
| 30.00 | 217,639 | 7.7 | \$ 27.59 | 126,539 | \$ 27.80 |
| 30.01 | | | | | |
| 40.00 | 5,000 | 7.9 | \$ 35.75 | 2,600 | \$ 35.75 |
| 40.01 | | | | | |
| 50.00 | 153,755 | 8.2 | \$ 43.35 | 85,369 | \$ 43.70 |
| 50.01 | | | | | |
| 60.00 | 36,129 | 8.2 | \$ 57.04 | 13,257 | \$ 56.89 |
| 60.01 | | | | | |
| 70.00 | 7,525 | 8.3 | \$ 63.93 | 3,775 | \$ 62.80 |
| 70.01 | | | | | |
| 80.00 | 9,502 | 8.1 | \$ 71.74 | 3,914 | \$ 71.99 |
| 80.01 | | | | | |
| 90.00 | 509,679 | 8.5 | \$ 89.90 | 509,679 | \$ 89.90 |
| 90.01 | | | | | |
| 116.38 | 3,200 | 8.2 | \$ 99.68 | 3,200 | \$ 99.68 |
| \$ 3.00 \$116.38 | 3,083,246 | 7.8 | \$ 29.93 | 1,680,263 | \$ 40.37 |

7. Income Taxes

A reconciliation of tax benefit computed at the statutory federal tax rate on losses from operations before income taxes to the actual income tax expense is approximately as follows:

| | Years Ended December 31, | | |
|---|---------------------------|---------------------------|---------------------------|
| | 2001 | 2000 | 1999 |
| Federal tax provision (benefit) computed at the statutory rate | \$(12,678,000) | \$(25,707,000) | \$(11,391,000) |
| State tax provision (benefit), net of federal tax provision (benefit) | (1,969,000) | (3,992,000) | (2,680,000) |
| Change in the beginning of the period valuation allowance for deferred tax assets allocated to tax expenses | 23,722,000 (7,124,000) | 32,598,000 (6,734,000) | 16,548,000 (7,812,000) |

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| | | | |
|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|
| General business credit generated | | | |
| Nondeductible expenses and other | (1,951,000) | 3,835,000 | 5,338,000 |
| | <u> </u> | <u> </u> | <u> </u> |
| Total income tax expense | \$ | \$ | \$ 3,000 |
| | <u> </u> | <u> </u> | <u> </u> |

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Deferred income taxes reflect the net effect of net operating loss carryforwards and the temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the amounts used for income tax purposes. Significant components of the Company's net deferred tax asset as of December 31, 2001 and 2000, respectively, are approximately as follows:

| | December 31, | |
|--|---------------|---------------|
| | 2001 | 2000 |
| Deferred tax assets: | | |
| Net operating loss carryforwards | \$ 37,678,000 | \$ 20,411,000 |
| General business credit | 24,685,000 | 17,561,000 |
| Unrealized loss on investment | 1,881,000 | 1,881,000 |
| Effect of conversion to accrual basis accounting for income tax purposes | 152,000 | (457,000) |
| License fees capitalized for tax purposes | 9,833,000 | 11,301,000 |
| In-process research and development capitalized for tax purposes | 6,185,000 | 6,624,000 |
| Other | 1,213,000 | 599,000 |
| | 81,627,000 | 57,920,000 |
| Deferred tax liabilities: | | |
| Furniture and equipment principally due to differences in depreciation | (55,000) | (70,000) |
| | (55,000) | (70,000) |
| Net deferred tax asset before valuation allowance | 81,572,000 | 57,850,000 |
| Valuation allowance | (81,572,000) | (57,850,000) |
| | \$ | \$ |

Based on the weight of available evidence, management has determined that the deferred tax asset amount may not be realized at this time. This is due primarily to the uncertainty of the timing of product approvals and the levels of future product sales and profitability.

The valuation allowance for deferred tax assets increased by approximately \$23.7 and \$32.6 million for the years ended December 31, 2001 and 2000, respectively.

At December 31, 2001, the Company had net operating loss carryforwards of approximately \$95.9 million and business tax credit carryforwards of approximately \$24.7 million for federal income tax purposes which expire at various dates from 2011 through 2020. Business tax credits can offset future tax liabilities and arise from qualified research expenditures. The Company's ability to utilize its net operating loss and general business tax credit carryforwards will be limited in the future if it is determined that the Company experienced an ownership change, as defined in Section 382 of the Internal Revenue Code, as a result of prior transactions and/or future transactions. The Company has not yet performed a study of the impacts of Section 382, but it believes an ownership change or changes have occurred. Accordingly, these net operating loss and general business tax credit carryforwards, will be subject to limitation, but are expected to be available to offset taxable income and taxes, as applicable, during their carryforward lives.

8. Notes and Leases Payable

On April 29, 1998, the Company purchased an office building at 1110 Spring Street in Silver Spring, Maryland for approximately \$581,000 in exchange for a note payable and cash. In June 1999, the Company refinanced the note payable for the building with a new mortgage note totaling \$720,000 due in monthly installments. This 30-year adjustable rate note had an interest rate of 7.5 percent in effect at December 31, 2001 and is secured by the building and property owned by the Company located at 1110 Spring Street in Silver Spring, Maryland.

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In September 1999, the Company purchased a building adjacent to 1110 Spring Street in Silver Spring, Maryland for approximately \$1,544,000. The Company issued a mortgage note payable to finance this purchase. The mortgage note payable was issued for \$1,078,000 and is payable in monthly installments. This 30-year adjustable rate note had an interest rate of 7.25 percent in effect at December 31, 2001 and is secured by a certificate of deposit in the amount of \$605,000 and the building and property owned by the Company located at 1106 Spring Street in Silver Spring, Maryland.

The Company also leased certain equipment under capital leases with interest rates of approximately 10.6 percent and terms up to 5 years.

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Future minimum payments under notes and leases payable are as follows:

| | Notes Payable | Capital Leases |
|------------------------------------|---------------------|-------------------|
| Year ending December 31, | | |
| 2002 | \$ 20,117 | \$ 93,484 |
| 2003 | 21,646 | 57,648 |
| 2004 | 23,292 | 30,526 |
| 2005 | 25,062 | 22,054 |
| 2006 | 26,967 | 12,836 |
| 2007 and thereafter | 1,637,161 | |
| | <u>1,754,245</u> | <u>216,548</u> |
| Less amounts representing interest | | (32,593) |
| Less current portion | (20,117) | (81,677) |
| | <u>\$ 1,734,128</u> | <u>\$ 102,278</u> |

At December 31, 2001, equipment under capital leases totaled approximately \$227,000 and accumulated depreciation totaled approximately \$66,000.

9. Marketable Investments

Investments at December 31, 2001 and 2000 consist of federally sponsored and corporate debt securities and certificates of deposit.

The following table summarizes the Company's marketable investments (in thousands):

| | As of December 31, 2001 | | | |
|-----------------------------------|-------------------------|------------------------------|-------------------------------|-------------------|
| | Amortized Cost | Gross Unrealized Gains | Gross Unrealized Losses | Fair Values |
| International note and bonds | \$ 3,610 | \$ 44 | \$ | \$ 3,654 |
| Agency note and bonds | 7,431 | 104 | | 7,535 |
| Corporate notes and bonds | 135,355 | | (936) | 134,419 |
| Certificate of deposit | 1,530 | | (5) | 1,525 |
| | <u>147,926</u> | <u>148</u> | <u>(941)</u> | <u>147,133</u> |
| Total | \$ 147,926 | \$ 148 | \$ (941) | \$ 147,133 |
| Reported as: | | | | |
| Current marketable investments | \$ 31,677 | | | |
| Noncurrent marketable investments | 116,249 | | | |
| Total | \$ 147,926 | | | |

As of December 31, 2000

| | <u>Amortized Cost</u> | <u>Gross Unrealized Gains</u> | <u>Gross Unrealized Losses</u> | <u>Fair Values</u> |
|--------------------------------|---------------------------|---------------------------------------|--|------------------------|
| Agency note and bonds | \$ 14,484 | \$ 3 | \$ | \$ 14,487 |
| Total | <u>\$ 14,484</u> | <u>\$ 3</u> | <u>\$</u> | <u>\$ 14,487</u> |
| Reported as: | | | | |
| Current marketable investments | <u>\$ 14,484</u> | | | |

The following table summarizes maturities of debt investments at December 31, 2001 (in thousands):

| | Amortized Cost |
|-----------------------|---------------------------|
| Less than 12 months | \$ 31,677 |
| Due in 13 - 24 months | 54,659 |
| Due in 25 - 36 months | 52,909 |
| Due in 37 - 60 months | 8,681 |
| Total | \$ 147,926 |

10. Operating Leases

The Company leases various office and production space generally under noncancelable agreements with terms expiring through 2006. The Company also leases automobiles for certain employees.

Approximate minimum annual rent payments to be paid under these noncancelable operating leases are as follows:

| Year ending December 31, | |
|---------------------------------|------------|
| 2002 | \$ 520,000 |
| 2003 | \$ 423,000 |
| 2004 | \$ 64,000 |
| 2005 | \$ 60,000 |
| 2006 | \$ 49,000 |

Total rent expense for the years ended December 31, 2001, 2000, and 1999 was approximately \$521,000, \$366,000 and \$207,000, respectively.

11. Acquisitions and Investments in Affiliates

WonderClick.com, Inc.

In July 1999, a subsidiary of Unither Telemedicine Services Corporation (UTSC) entered into an agreement to form WonderClick.com, Inc. (formerly AboveCable.com, Inc.), a Delaware corporation, to provide Internet access via cable television portals worldwide. This subsidiary received 20 percent of the initial outstanding common stock of WonderClick.com, Inc. and the exclusive rights to offer telemedicine and electronic health services at the portal level. The agreement does not require the UTSC subsidiary to contribute cash or other capital. WorldSpace Corporation purchased a 50 percent common stock shareholding in the new company. The Chairman and CEO of WorldSpace is a major stockholder and a director of the Company. At December 31, 2001, the subsidiary's 20 percent investment in WonderClick.com, Inc. had an original cost of zero and was reported at zero. The subsidiary's equity in the underlying net assets was approximately \$1.3 million.

SynQuest, Inc.

On October 7, 1999, the Company acquired all the outstanding stock of SynQuest, Inc. (SynQuest), an Illinois corporation engaged in the synthesis and manufacture of complex molecules. SynQuest manufactures treprostinil, the bulk active ingredient in Remodulin, the Company's lead compound. The total cost of this acquisition was approximately \$3.2 million, including transaction costs. Cash of \$200,000 and 101,251 shares of the Company's common stock valued at \$2.9 million were paid to the sellers as consideration. A holdback equivalent to \$500,000 of the Company's common stock, which was reduced to \$200,000 in December 2000, is being held in escrow for unknown liabilities and will be paid to the sellers over four years, subject to certain conditions.

Goodwill and other intangible assets resulting from the acquisition were approximately \$2.8 million and were being amortized in a straight-line manner over periods ranging up to five years. The acquisition was accounted for as a purchase. SynQuest's operations since October 7, 1999 have been included in the Company's consolidated financial statements. In December 2000, the Company dissolved SynQuest,

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Inc. and merged it into United Therapeutics Corporation. SynQuest now operates as the synthesis and manufacturing division of United Therapeutics Corporation. Its activities were unaffected by the dissolution and merger.

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Preventis, Inc.

In 2000, the Company entered into an agreement to form Preventis, Inc., a Delaware corporation, to create new vaccine technology and to develop and commercialize novel therapeutics for infectious disease. The Company received 30 percent of the initial outstanding common stock of Preventis. The agreement does not require the Company to contribute cash or other capital. A director of the Company purchased a 57 percent common stock shareholding in the new company. At December 31, 2001, the Company's investment in Preventis had an original cost of zero and was reported at zero. The subsidiary's equity in the underlying net assets was a deficit of approximately \$982,000.

Unither Pharma, Inc.

On December 11, 2000, the Company agreed to purchase all of assets and assume certain liabilities of Cooke Pharma Inc., based in California. The acquired company now operates as Unither Pharma, Inc. The acquisition closed on December 28, 2000. Unither Pharma is the exclusive owner and developer of the intellectual property rights to use arginine to promote cardiovascular health. Medical foods are regulated by the FDA. The total cost of this acquisition was approximately \$15.9 million, including transaction costs. The Company issued 294,635 shares of common stock, subject to adjustment within a year, valued at \$15.7 million to the sellers and assumed approximately \$1.7 million of liabilities as consideration. In addition, the Company agreed to pay a single-digit cash royalty to Cooke Pharma on sales of Unither Pharma products up to an additional \$49 million (a lifetime cap), subject to possible reduction.

The acquisition was structured as a taxable stock-for-assets purchase with a residual royalty stream. The Company agreed to register all of these shares for resale by Cooke Pharma in accordance with the terms of the Registration Rights Agreement dated as of December 15, 2000. Approximately 147,000 of the shares issued to Cooke Pharma are being held in escrow for up to two years for unknown liabilities, indemnifications, warranties and a stock adjustment (described below) pursuant to the terms of an Escrow Agreement.

The sellers will receive additional shares from the Company, if on the first anniversary of the closing, the average closing price of the Company's common stock over the 90 calendar days prior to the anniversary is less than \$90.00 per share, in order that the value of all shares issued to Cooke Pharma equals the value of the shares issued to Cooke Pharma at the closing at \$90.00 per share. If, however, such average closing price is less than \$51.65 per share, the additional shares to be issued to Cooke Pharma shall not exceed a value equal to the difference between \$90.00 and \$51.65 per share. If the average anniversary closing price is greater than \$99.00 per share, the number of shares of the Company's common stock issued as of the date of closing shall be adjusted as if it had a value of \$99.00 at closing (for a total value not to exceed approximately \$29 million), and the Company shall receive the remaining shares following the adjustment. The consideration given was valued at the fair value of the 294,635 shares of United Therapeutics' stock issued using an average NASDAQ closing price of \$14.84 which totaled approximately \$4.4 million, plus the value of the potential additional shares that may be issued which totaled approximately \$11.3 million (equivalent to the minimum guaranteed share price of \$90.00 per share less the floor established in the agreement of \$51.65 multiplied by 294,635 shares). The average closing price of the Company's common stock over the 90 calendar days prior to the anniversary was \$10.11 per share. Accordingly, the Company will be required to issue additional shares to the sellers in 2002.

Intangible assets resulting from the acquisition were approximately \$7.8 million and are being amortized in a straight-line manner over periods ranging from three to eighteen years. These intangible assets include the HeartBar trade name, patents and base technology. The amount attributed to in-process research and development totaling approximately \$7.1 million was charged to expense at the date of acquisition. The fair values of the intangible assets were based on independent valuations. The acquisition was accounted for as a purchase. Cooke Pharma's operations since December 11, 2000 have been included in the Company's consolidated financial statements.

The write-off of in-process research and development related to the acquisition of Cooke Pharma was expensed as a one-time non-recurring charge in 2000. The projects under development at the valuation date were expected to address the coronary and peripheral arterial disease markets as well as the market that is at risk of developing some form of heart disease. It was anticipated that research and development related to these projects would be completed by 2002. However, United Therapeutics has decided to initiate studies of arginine in pulmonary hypertension prior to coronary and peripheral arterial diseases. These studies in pulmonary hypertension are expected to commence in 2002. The delay in the coronary and peripheral arterial disease studies is not expected to have a material impact on the Company.

Medicomp, Inc. and Telemedical Procedures, LLC

On December 29, 2000, the Company acquired all of the assets of Medicomp, Inc. and Telemedical Procedures, LLC (Medicomp), related cardiac monitoring companies based in Florida. The total cost of this acquisition was approximately \$20.0 million, including transaction costs. Cash of \$8.0 million and 257,142 shares of the Company's common stock valued at \$11.9 million and subject to adjustment was paid to the sellers as consideration.

The acquisition was structured as a taxable purchase. The Company agreed to register all of these shares for resale by Medicomp in accordance with the terms of the Registration Rights Agreement dated as of December 28, 2000. Approximately 129,000 of the shares issued to Medicomp are being held in escrow for up to three years for unknown liabilities, indemnifications, warranties and a stock adjustment (described below) pursuant to the terms of an Escrow Agreement.

Medicomp may receive additional shares from the Company on the third anniversary of the closing if the average closing price of the Company's common stock over the 30 calendar days prior to the anniversary is less than \$70.00 per share, in order that the value of all shares issued to Medicomp equals the value of the shares issued to Medicomp at the closing at \$70.00 per share (subject to a maximum of 600,000 shares). The stock consideration given was valued at the fair value of the 257,142 shares of United Therapeutics' stock issued using an average NASDAQ closing price of \$13.84 which totaled approximately \$3.6 million, plus the value of the potential additional shares that may be issued which totaled approximately \$8.3 million (equivalent to the average NASDAQ closing price of \$13.84 per share multiplied by the maximum of 600,000 additional shares that may be issued in the future).

Goodwill and other intangible assets resulting from the acquisition were approximately \$7.8 million and were being amortized in a straight-line manner over periods ranging from three to twenty years. The other intangible assets include base technology. The amount attributed to in-process research and development totaling approximately \$9.8 million was charged to expense at the date of the acquisition. The fair values of the intangible assets were based on independent valuations. The acquisition was accounted for as a purchase. Medicomp's operations since December 29, 2000 have been included in the Company's consolidated financial statements.

The write-off of in-process research and development related to the acquisition of Medicomp was expensed as a one-time non-recurring charge in 2000. At the acquisition date, Medicomp was conducting design, development, engineering and testing activities associated with the completion of a number of new technological innovations that were integral to Medicomp's plan to launch a first generation automatic wireless heart monitoring system. It was anticipated that completion of these projects would range from 9 to 12 months. Completion is expected to occur in 2002. This delay is not expected to have a material impact on United Therapeutics.

Pro Forma Information Related to the Unither Pharma and Medicomp Acquisitions

The following unaudited pro forma financial information presents the combined approximate results of operations of the Company, including Unither Pharma and Medicomp, as if the acquisitions had occurred as of the beginning of 2000 and 1999, after giving effect to certain adjustments, including amortization of goodwill and the write-off of acquired in-process research and development expenses. The pro forma financial information does not necessarily reflect the results of operations that would have occurred had the Company acquired Unither Pharma and Medicomp at the beginning of these periods.

| | Years ended December 31, | |
|-------------------|--------------------------|--------------|
| | 2000 | 1999 |
| | (unaudited) | |
| Total revenues | \$ 6,336,000 | \$ 3,571,000 |
| Net loss | (85,285,000) | (49,980,000) |
| Loss per share | | |
| basic and diluted | \$ (4.31) | \$ (3.59) |

Northern Therapeutics Corporation

In December 2000, Lung Rx, a subsidiary of the Company, formed a new company in Canada, Northern Therapeutics Corporation (Northern Therapeutics), with the inventor of a new form of gene therapy for pulmonary hypertension and other conditions. The purpose of Northern Therapeutics is to develop the gene therapy and also to distribute Lung Rx' second generation prostacyclin analog, Unipeg, and HeartBar, in Canada and, upon the consent of Toray Industries Inc., to distribute beraprost in Canada. Lung Rx received approximately 59 percent of the

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initial outstanding common stock of Northern Therapeutics in exchange for \$5.0 million in cash of which \$1.0 million was paid in December 2000. The remaining \$4.0 million is generally being paid in

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\$1.0 million increments annually over four years. The Company has agreed to provide the services of its Chief Executive Officer as Chairman of the Northern Therapeutics' initial Board and its then current Executive Vice President Business Development as the Company's initial CEO. During 2001, Northern Therapeutics' CEO resigned. Therefore, since December 2001, the Company's CEO has been serving as the acting CEO of Northern Therapeutics.

Northern Therapeutics is intended as a Canadian Controlled Private Corporation. Lung Rx may appoint only two of the company's seven board seats. Substantially all important decisions require unanimous board votes in favor of the proposal. As a result, Lung Rx does not control Northern Therapeutics and the equity method of accounting is used to account for Lung Rx's investment in the new company. At December 31, 2001, Lung Rx's 59 percent investment in the new company was reported at the original cost of \$4.3 million which is comprised of the \$1.0 million paid in cash and the present value of the additional \$4.0 million due over four years. The amounts due at December 31, 2001 totaled approximately \$3.6 million and are reported as due to affiliate in the accompanying consolidated balance sheets. Lung Rx's equity in the underlying net assets was approximately \$4.7 million at December 31, 2001.

12. Employees Retirement Plan

Effective January 1, 1999, the Company adopted the United Therapeutics Corporation Employees' Retirement Plan (the Plan), a salary reduction profit sharing plan. Employees employed on or after July 15, 1999 are eligible to participate in the Plan. The Plan provides for annual discretionary employer contributions. Employees may also contribute to the Plan at their discretion. No employer contributions have been made to the Plan.

13. Accrued Expenses

Accrued expenses consisted of the following at December 31, 2001 and 2000:

| | December 31, | |
|-------------------|--------------------|--------------------|
| | 2001 | 2000 |
| Professional fees | \$ 65,878 | \$ 20,000 |
| Research | 2,544,132 | 3,842,170 |
| Other | 843,616 | 660,380 |
| Total | <u>\$3,453,626</u> | <u>\$4,522,550</u> |

14. Segment Information

The Company has two reportable business segments. The pharmaceutical segment includes all activities associated with the research, development, manufacture, and commercialization of therapeutic products. The telemedicine segment includes all activities associated with the research, manufacture, and delivery of patient monitoring services. The telemedicine segment is managed separately because diagnostic services require different technology and marketing strategies.

Segment information as of and for the year ended December 31, 2001 was as follows:

| | Pharmaceutical | Telemedicine | Consolidated Totals |
|-------------------------------|-----------------|----------------|---------------------|
| Revenues | \$ 2,980,737 | \$ 2,750,965 | \$ 5,731,702 |
| Losses | \$ (33,860,289) | \$ (3,427,460) | \$ (37,287,749) |
| Interest Income | \$ 9,982,660 | \$ 37,870 | \$ 10,020,530 |
| Depreciation and amortization | \$ 1,557,934 | \$ 1,263,220 | \$ 2,821,154 |
| Total assets | \$200,630,589 | \$11,490,782 | \$212,121,371 |

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Segment information as of and for the year ended December 31, 2000 was as follows:

| | Pharmaceutical | Telemedicine | Consolidated Totals |
|--|-----------------|----------------|---------------------|
| Revenues | \$ 2,049,258 | \$ | \$ 2,049,258 |
| Losses | \$ (65,761,802) | \$ (9,846,688) | \$ (75,608,490) |
| Interest Income | \$ 10,692,585 | \$ 654 | \$ 10,693,239 |
| Depreciation and amortization | \$ 912,716 | \$ 1,270 | \$ 913,986 |
| Noncash licensing fees and write downs of acquired in process research and development | \$ 25,873,700 | \$ 9,760,000 | \$ 35,633,700 |
| Total assets | \$239,450,718 | \$11,194,266 | \$250,644,984 |

Previously, arginine was presented as a segment for 2000. For the 2001 and 2000 presentations shown above, all arginine products were combined with the pharmaceutical segment where they are more appropriately classified. The accounting policies of the segments are the same as those described in the summary of significant accounting policies in note 2. There are no inter-segment transactions.

All of the Companies 1999 and 2000 revenues were earned from customers located in the U.S. In 2001, approximately 87 percent of the Company's revenues were earned from customers located in the U.S.

15. Fourth Quarter Results

During the fourth quarter of 2001, the Company had no significant adjustments or transactions.

16. Quarterly Financial Information (Unaudited)

The following presents certain quarterly financial information for each of the years ended December 31, 2001 and 2000:

| | Quarters Ending During 2001 | | | |
|----------------------------------|-----------------------------|-----------------------|------------------|-------------------|
| | December 31, 2001 | September 30, 2001 | June 30, 2001 | March 31, 2001 |
| Net sales | \$ 1,619,397 | \$ 1,262,867 | \$ 1,270,592 | \$ 1,482,515 |
| Gross profit | 871,611 | 403,495 | 545,881 | 677,232 |
| Net loss | (7,427,133) | (9,810,895) | (10,646,937) | (9,402,784) |
| Loss per share basic and diluted | \$ (0.37) | \$ (0.48) | \$ (0.53) | \$ (0.46) |

| | Quarters Ending During 2000 | | | |
|----------------------------------|-----------------------------|-----------------------|------------------|-------------------|
| | December 31, 2000 | September 30, 2000 | June 30, 2000 | March 31, 2000 |
| Net sales | \$ 789,667 | \$ 353,891 | \$ 496,303 | \$ 259,397 |
| Gross profit | 82,033 | 89,344 | 62,716 | 39,114 |
| Net loss | (31,872,554) | (7,014,023) | (28,810,316) | (7,911,597) |
| Loss per share basic and diluted | \$ (1.57) | \$ (0.35) | \$ (1.55) | \$ (0.44) |

17. Recent Accounting Pronouncements

In July 2001, the Financial Accounting Standards Board (the FASB) issued SFAS No. 141, Business Combinations (SFAS 141), and SFAS No. 142, Goodwill And Other Intangible Assets (SFAS 142). SFAS 141 addresses the accounting for acquisitions of businesses and is effective for acquisitions occurring on or after July 1, 2001. SFAS 142 addresses the method of identifying and measuring goodwill and other intangible assets acquired in a business combination, eliminates further amortization of goodwill, and requires periodic evaluations of impairment of goodwill balances. SFAS 142 is effective for the Company's fiscal year beginning January 1, 2002. The Company amortized \$1.1 million and \$495,000 of goodwill during the years ended December 30, 2001 and 2000, respectively. Unamortized goodwill at January 1, 2002, the date of adoption, was approximately \$7.5 million. All other unamortized intangible assets totaled \$7.9 million at January 1, 2002.

In October 2001, the FASB issued SFAS No. 144, Accounting for Impairment or Disposal of Long-Lived Assets (SFAS 144). The provisions of SFAS 144 require the use of a consistent accounting model for long-lived assets to be disposed of by sale, whether previously held and used or newly acquired and extend the presentation of discontinued operations to include more disposal transactions. SFAS 144 is effective for the Company's fiscal year beginning January 1, 2002.

The Company has not yet completed its assessment of the impact of the adoption of these new standards.

United Therapeutics Corporation
Schedule II Valuation and Qualifying Accounts
Years Ended December 31, 2001, 2000, and 1999

| | Allowance for Doubtful Accounts Receivable | | | |
|------------------------------|--|-------------------------------------|-------------|---------------------------|
| | Balance at Beginning of Year | Additions charged to expenses | Deductions | Balance at End of Year |
| Year ended December 31, 2001 | \$ 98,281 | \$ 136,099 | \$ (36,638) | \$ 197,742 |
| Year ended December 31, 2000 | \$ | \$ 98,281 | \$ | \$ 98,281 |
| Year ended December 31, 1999 | \$ | \$ | \$ | \$ |

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ITEM 9: CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURES

None.

PART III

ITEM 10. DIRECTORS AND EXECUTIVE OFFICERS OF THE REGISTRANT

Information required by Item 10 regarding nominees and directors appearing under Election of Directors in United Therapeutics definitive proxy statement for its 2002 annual shareholders meeting (the 2002 Proxy Statement) is hereby incorporated herein by this reference. Information regarding executive officers of United Therapeutics appears in Part I of this Form 10-K under the heading Executive Officers .

Information appearing under Section 16(a) Beneficial Ownership Reporting Compliance in the 2002 Proxy Statement is hereby incorporated herein by this reference.

ITEM 11. EXECUTIVE COMPENSATION

Information concerning executive compensation required by Item 11 appears under Management in the 2002 Proxy Statement and is hereby incorporated herein by this reference.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT

The information regarding beneficial ownership of United Therapeutics capital stock required by Item 12 appears under Security Ownership of Certain Beneficial Owners and Management in the 2002 Proxy Statement and is hereby incorporated herein by this reference.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS

Information concerning related party transactions required by Item 13 appears under Certain Relationships and Related Transactions in the 2002 Proxy Statement and is hereby incorporated herein by this reference.

PART IV**ITEM 14. EXHIBITS, FINANCIAL STATEMENT SCHEDULES AND REPORTS ON FORM 8-K.**

(a) The following documents are filed as part of this report:

- (i) Consolidated Balance Sheets as of December 31, 2001 and 2000.
- (ii) Consolidated Statements of Operations for the three years ended December 31, 2001.
- (iii) Consolidated Statements of Stockholders' Equity for the three years ended December 31, 2001.
- (iv) Consolidated Statements of Cash Flows for the three years ended December 31, 2001.
- (v) Notes to Consolidated Financial Statements.

Exhibits filed as a part of this Form 10-K:

| Exhibit No. | Description |
|-------------|--|
| 3.1 | Amended and Restated Certificate of Incorporation of the Registrant, incorporated by reference to Exhibit 3.1 of the Registrant's Registration Statement on Form S-1 (Registration No. 333-76409). |
| 3.2 | Amended and Restated Bylaws of the Registrant, incorporated by reference to Exhibit 3.2 of the Registrant's Registration Statement (Registration No. 333-76409). |
| 4.1 | Reference is made to Exhibits 3.1 and 3.2. |
| 4.2 | Registration Rights Agreement, dated as of October 30, 1998, by and among the Registrant, Merrill Lynch KECALP L.P. 1997, and Merrill Lynch KECALP International L.P. 1997, incorporated by reference to Exhibit 4.2 of the Registrant's Registration Statement on Form S-1 (Registration No. 333-76409). |
| 4.3 | Form of Common Stock Purchase Agreement, executed as of March 1998, by and between the Registrant and each of Community Investment Partners III L.P., LLLP, Mary Ellen and Raul Evelio Perez, Trustees of the Mary Ellen Perez revocable trust dated October 28, 1993, Edward D. Jones & Co., Oakwood Investors I, L.L.C. and James L. Nouss, Jr., incorporated by reference to Exhibit 4.3 of the Registrant's Registration Statement on Form S-1 (Registration No. 333-76409). |
| 4.4 | Warrant to purchase shares of United Therapeutics common stock, issued on November 2, 1998 to Cortech, Inc., incorporated by reference to Exhibit 4.4 of the Registrant's Registration Statement on Form S-1 (Registration No. 333-76409). |
| 4.5 | Stock Option Grant to purchase shares of United Therapeutics common stock, issued on September 16, 1998, to Toray Industries, Inc., incorporated by reference to Exhibit 4.5 of the Registrant's Registration Statement on Form S-1 (Registration No. 333-76409). |
| 4.6 | Registration Rights Agreement, dated as of October 7, 1999, by and among the Registrant and Robert M. Moriarty, Ph.D., Raju Penmasta, Ph.D., Liang Guo, Ph.D., George W. Davis, Esq. and David Moriarty, incorporated by reference to Exhibit 10.2 of the Registrant's Form 10-Q for the period ended September 30, 1999. |
| 4.7 | Form of Purchase Agreement dated as of December 22, 1999, incorporated by reference to Exhibit 4.6 of the Registrant's Registration Statement on Form S-1 (Registration No. 333-93853). |
| 4.8 | Registration Rights Agreement, dated as of June 27, 2000 by and between the Registrant and Toray Industries, Inc., incorporated by reference to Exhibit 4.7 of the Registrant's Registration Statement on Form S-3 (Registration No. 333-40598). |
| 4.9 | |

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- Stock Option Grant issued on June 27, 2000 to Toray Industries, Inc., incorporated by reference to Exhibit 4.8 of the Registrant's Registration Statement on Form S-3 (Registration No. 333-40598).
- 4.10 Form of Stock Purchase Agreement dated July 13, 2000 incorporated by reference to Exhibit 99.2 of the Registrant's Current Report on Form 8-K filed July 14, 2000.
- 4.11 Registration Rights Agreement, dated as of December 15, 2000 by and between the Registrant and Cooke Pharma, Inc., incorporated by reference to Exhibit 2.2 of the Registrant's Form 8-K/A dated December 15, 2000.

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| Exhibit No. | Description |
|-------------|--|
| 4.12 | Escrow Agreement, dated as of December 15, 2000 among Registrant, UP Subsidiary Corporation, Cooke Pharma, Inc., and Mahon, Patusky, Rothblatt & Fisher, Chartered, as escrow agent, incorporated by reference to Exhibit 2.3 of the Registrant's Form 8-K/A dated December 15, 2000. |
| 4.13 | Registration Rights Agreement, dated as of December 28, 2000 by and between the Registrant and Medicomp, Inc., incorporated by reference to Exhibit 2.2 of the Registrant's Form 8-K/A dated December 28, 2000. |
| 4.14 | Escrow Agreement, dated as of December 28, 2000 among Registrant, UTSC Sub Acquisition, Inc., Medicomp, Inc., Mahon, Patusky, Rothblatt & Fisher, Chartered, as escrow agent, and Chicago Title, as successor escrow agent, incorporated by reference to Exhibit 2.3 of the Registrant's Form 8-K/A dated December 28, 2000. |
| 4.15 | Rights Agreement, dated as of December 17, 2000 between Registrant and The Bank of New York, as Rights Agent, incorporated by reference to Exhibit 4 of Registrant's Form 8-K dated December 17, 2000. |
| 10.1 ** | Amended and Restated Equity Incentive Plan, incorporated by reference to Exhibit 10.1 of the Registrant's Registration Statement on Form S-1 (Registration No. 333-76409). |
| 10.2 | Form of Scientific Advisor Compensation Agreement, incorporated by reference to Exhibit 10.2 of the Registrant's Registration Statement on Form S-1 (Registration No. 333-76409). |
| 10.3 ** | Executive Employment Agreement (as amended) dated as of April 2, 1999, between the Registrant and Martine A. Rothblatt, incorporated by reference to Exhibit 10.3 of the Registrant's Registration Statement on Form S-1 (Registration No. 333-76409). |
| 10.4 ** | Employment Agreement dated July 15, 1996, between the Registrant and James W. Crow, incorporated by reference to Exhibit 10.4 of the Registrant's Registration Statement on Form S-1 (Registration No. 333-76409). |
| 10.5 ** | Employment Agreement dated April 7, 1996, between the Registrant and Gilles Cloutier, incorporated by reference to Exhibit 10.5 of the Registrant's Registration Statement on Form S-1 (Registration No. 333-76409). |
| 10.6 ** | Employment Agreement dated August 1, 1996, between the Registrant and Shelmer Blackburn, Jr., incorporated by reference to Exhibit 10.6 of the Registrant's Registration Statement on Form S-1 (Registration No. 333-76409). |
| 10.7 | First Flight Venture Lease Agreement dated July 1, 1997, between North Carolina Technological Development Authority, Inc. and the Registrant, incorporated by reference to Exhibit 10.2 of the Registrant's Registration Statement on Form S-1 (Registration No. 333-76409). |
| 10.8 | Exclusive License Agreement dated as of December 3, 1996, between the Registrant and affiliate of Pharmacia & Upjohn Company, incorporated by reference to Exhibit 10.8 of the Registrant's Registration Statement on Form S-1 (Registration No. 333-76409).* |
| 10.9 | Assignment Agreement dated as of January 31, 1997, between the Registrant and affiliates of Glaxo Wellcome Inc., incorporated by reference to Exhibit 10.9 of the Registrant's Registration Statement on Form S-1 (Registration No. 333-76409).* |
| 10.10 | Cooperation and Strategic Alliance Agreement dated as of September 3, 1997, between Registrant and MiniMed Inc., incorporated by reference to Exhibit 10.10 of the Registrant's Registration Statement on Form S-1 (Registration No. 333-76409).* |
| 10.11 | Exclusive License Agreement dated as of September 24, 1998, between the Registrant and Toray Industries, Inc., incorporated by reference to Exhibit 10.11 of the Registrant's Registration Statement on Form S-1 (Registration No. 333-76409).* |
| 10.12 | Exclusive License Agreement dated as of November 4, 1998, between the Registrant and Cortech, Inc., incorporated by reference to Exhibit 10.12 of the |

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- 10.13 Registrant's Registration Statement on Form S-1 (Registration No. 333-76409).*
Exclusive License and Distribution Agreement dated as of February 4, 1999,
among the Registrant, Global Medical Enterprises Ltd. And Global Medical
Enterprises Ltd., LLC., incorporated by reference to Exhibit 10.13 of the
Registrant's Registration Statement on Form S-1 (Registration No. 333-76409).*

| | |
|-------|---|
| 10.14 | Exclusive License Agreement dated as of March 15, 1999, between the Registrant and Toray Industries, Inc., incorporated by reference to Exhibit 10.14 of the Registrant's Registration Statement on Form S-1 (Registration No. 333-76409).* |
| 10.15 | Manufacturing Agreement dated as of February 11, 1998, between the Registrant and Steroids, Ltd., incorporated by reference to Exhibit 10.15 of the Registrant's Registration Statement on Form S-1 (Registration No. 333-76409).* |
| 10.16 | Agreement and Plan of Merger dated as of October 7, 1999, among the Registrant, SQ Acquisition, Inc., Robert M. Moriarty, Ph.D., Raju Penmasta, Ph.D., Liang Guo, Ph.D., George W. Davis, Esq., David Moriarty and SynQuest, Inc., incorporated by reference to Exhibit 10.1 of the Registrant's Quarterly Report on Form 10-Q for the period ended September 30, 1999. |
| 10.17 | Lease dated as of March 1, 1999, between the Unither Telemedicine Services Corp. and Beacon Projects, Inc., incorporated by reference to Exhibit 10.17 of the Registrant's Registration Statement on Form S-1 (Registration No. 333-76409). |
| 10.18 | UAI Technology, Inc. Office Lease dated as of July 1, 1998, between the Registrant and UAI Technology, Inc., incorporated by reference to Exhibit 10.18 of the Registrant's Registration Statement on Form S-1 (Registration No. 333-76409). |
| 10.19 | Form of Indemnification Agreement between the Registrant and each of its Directors, incorporated by reference to Exhibit 10.19 of the Registrant's Registration Statement on Form S-1 (Registration No. 333-76409) |
| 10.20 | Guidelines to Govern the Strategic Activities, Co-Development and Related Activities of the Parties dated as of November 1, 1999, between the Registrant and MiniMed, Inc., incorporated by reference to Exhibit 10.20 of the Registrant's Amended Registration Statement on Form S-1/A (Registration No. 333-93853).* |
| 10.21 | Short Form Commercial and Apartment House Real Estate Purchase Agreement, accepted as of August 4, 1999 between the Registrant and 1106 Spring Street Associates, incorporated by reference to Exhibit 10.21 of the Registrant's Form 10-K for the year ended December 31, 2000. |
| 10.22 | Exclusive License Agreement dated as of June 23, 2000 between the Registrant and Toray Industries, Inc., incorporated by reference to Exhibit 10.1 of the Registrant's Registration Statement on Form S-3 (Registration No. 333-40598) |
| 10.23 | Asset Purchase Agreement dated as of December 28, 2000 among the Registrant, UTSC Sub Acquisition, Inc., Medcomp, Inc., and Telemedical Procedures, LLC, incorporated by reference to Exhibit 2.1 of the Registrant's Form 8-K/A dated December 28, 2000. |
| 10.24 | Asset Purchase Agreement dated as of December 15, 2000 among the Registrant, UP Subsidiary Corporation, and Cooke Pharma, Inc., incorporated by reference to Exhibit 2.1 of the Registrant's Form 8-K/A dated December 15, 2000. |
| 21 | Subsidiaries of the Registrant. |
| 23.1 | Consent of KPMG LLP. |

* Confidential treatment has been granted with respect to certain portions of this exhibit pursuant to Rule 406 of the Securities Act of 1933, as amended.

** Designates management contracts and compensation plans.
 (b) Reports on Form 8-K

On October 15, 2001, the Registrant filed a Form 8-K dated October 15, 2001 reporting an Item 5 event.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereto duly authorized.

UNITED THERAPEUTICS CORPORATION

March 19, 2002

By: /s/ MARTINE A. ROTHBLATT

Martine A. Rothblatt
Chairman of the Board and Chief Executive Officer

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

| <u>Signatures</u> | <u>Title</u> | <u>Date</u> |
|---|--|----------------|
| <u>/s/ MARTINE A. ROTHBLATT</u> Martine A Rothblatt | Chairman of the Board and Chief Executive Officer | March 19, 2002 |
| <u>/s/ ROGER A. JEFFS</u> Roger A. Jeffs | President and Chief Operating Officer | March 19, 2002 |
| <u>/s/ FRED T. HADEED</u> Fred T. Hadeed | Chief Financial Officer | March 19, 2002 |
| <u>/s/ NOAH A. SAMARA</u> Noah A. Samara | Director | March 19, 2002 |
| <u>/s/ DAVID GOORAY</u> David Gooray | Director | March 19, 2002 |
| <u>/s/ MICHAEL C. MILES</u> Michael Miles | Director | March 19, 2002 |
| <u>/s/ H. BEECHER HICKS, III</u> H. Beecher Hicks, III | Director | March 19, 2002 |
| <u>/s/ RICARDO BALDA</u> Ricardo Balda | Director | March 19, 2002 |
| <u>/s/ RAYMOND KURZWEIL</u> Raymond Kurzweil | Director | March 19, 2002 |

