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BONE CARE INTERNATIONAL INC  
Form 10-K  
September 30, 2002

SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549

FORM 10-K

(MARK ONE)

☒ ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES  
EXCHANGE ACT OF 1934 FOR THE FISCAL YEAR ENDED JUNE 30, 2002

OR

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

COMMISSION FILE NUMBER 0-27854

BONE CARE INTERNATIONAL, INC.  
(EXACT NAME OF REGISTRANT AS SPECIFIED IN ITS CHARTER)

Wisconsin  
(State or other jurisdiction of  
incorporation or organization)

39-1527471  
(IRS Employer  
Identification No.)

1600 Aspen Commons  
Middleton, Wisconsin  
(Address of principal executive offices)

53562  
(Zip Code)

Registrant's telephone number, including area code: (608) 662-7800

Securities registered pursuant to Section 12(b) of the Act:

None

Securities registered pursuant to Section 12(g) of the Act:

Common Stock, without par value  
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 ☐  
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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.

As of August 1, 2002, there were issued and outstanding 14,156,772  
shares of Common Stock. The aggregate market value of the voting and non-voting  
common equity held by nonaffiliates of the registrant was \$84,657,497 as of  
September 26, 2002, assuming solely for purposes of this calculation that all  
directors and executive officers of the registrant are "affiliates." This

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determination of affiliate status is not necessarily a conclusive determination for other purposes.

## DOCUMENTS INCORPORATED BY REFERENCE

Portions of the Bone Care International, Inc., Proxy Statement for its 2002 Shareholders Meeting to be held on November 15, 2002 (Part III).

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BONE CARE INTERNATIONAL, INC.

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In this Annual Report on Form 10-K, "Bone Care," "we," "us" and "our" refer to Bone Care International, Inc., unless the context suggests otherwise.

Bone Care(R) and Hectorol(R) are registered trademarks of Bone Care International, Inc., in the United States. A community trademark application for Hectorol is pending in the European Community Trademark Office, Japan, and selected other countries. Hectorol is the brand name for the active drug substance, doxercalciferol. This filing also includes trademarks of other companies.

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#### FORWARD-LOOKING STATEMENTS

This Annual Report on Form 10-K includes forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. We have based these forward-looking statements largely on our current expectations and projections about future events and financial trends affecting the financial condition of our business. These forward-looking statements are subject to a number of risks, uncertainties and assumptions about Bone Care, including, among other things:

- general economic and business conditions, both nationally and in our markets;
- our expectations and estimates concerning future financial performance, financing plans and the impact of competition;
- anticipated trends in our business;
- existing and future regulations affecting our business;
- our early stage of development;
- the uncertainty of our future profitability;
- our ability to satisfy the FDA's conditions for marketing approval for Hectorol;
- our ability to commercialize Hectorol;
- our ability to avoid or minimize delays in or interruption of the manufacture and supply of our products; and
- other risk factors set forth under "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" in this Annual Report.

In addition, in this Annual Report, the words "believe," "may," "will," "estimate," "continue," "anticipate," "intend," "expect" and similar expressions, as they relate to Bone Care, our business or our management, are intended to identify forward-looking statements.

Unless otherwise required by law, we undertake no obligation to publicly update or revise any forward-looking statements, whether as a result of

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new information, future events or otherwise after the date of this filing. However, we acknowledge our obligation to disclose material developments related to previously disclosed information. In light of these risks and uncertainties, the forward-looking events and circumstances discussed in the filing may not occur, and actual results could differ materially from those anticipated or implied in the forward-looking statements.

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### ITEM 1. BUSINESS

#### OVERVIEW

Bone Care is a pharmaceutical company engaged in discovering, developing and commercializing improved vitamin D-hormone therapies to treat secondary hyperparathyroidism in patients with kidney (or renal) disease, osteoporosis and other diseases, including psoriasis and cancers where vitamin D therapy may be of benefit such as cancers of the prostate, breast and colon. We were founded in 1984 as a subsidiary of Lunar Corporation, located in Madison, Wisconsin, and we were spun off from Lunar in 1996.

We licensed our first product, doxercalciferol or Hectorol, as it is known commercially, in 1987 from the University of Wisconsin, a leading vitamin D research center. Hectorol is a vitamin D-hormone replacement therapy approved by the FDA in two formulations to treat secondary hyperparathyroidism in patients with end-stage renal disease, or ESRD. Hectorol is a safe and effective therapy for reducing elevated levels of parathyroid hormone (PTH) in blood in the management of secondary hyperparathyroidism, a disease characterized by excessive secretion of PTH. Hyperparathyroidism, if left untreated, can eventually result in cardiovascular compromise, reduced immunity, muscle weakness, bone loss and fractures. Virtually all ESRD patients suffer from secondary hyperparathyroidism. We obtained FDA approval for Hectorol Capsules in June 1999, and we began selling this orally administered product in the United States in October 1999. We filed a supplemental New Drug Application with the FDA in December 2001 to treat secondary hyperparathyroidism in chronic kidney disease (CKD) patients. If approved, this would expand the approved indications for Hectorol Capsules. We obtained FDA approval for Hectorol Injection in April 2000, we launched this intravenous product in the United States in August 2000, and we received a national Medicare reimbursement code for Hectorol Injection in January 2002. We are also developing doxercalciferol and other vitamin D-hormones to treat several other diseases.

#### BACKGROUND

D-hormones are produced in the body from vitamin D that is either ingested or generated in the skin from sunlight exposure. D-hormones have essential roles in human health; they regulate (1) parathyroid hormone (PTH) secretion by the parathyroid glands, (2) the absorption of calcium by the small intestine, (3) muscle function, and (4) the proliferation and maturation of several types of normal and abnormal cells. D-hormone deficiency in CKD occurs when the kidneys are unable to produce D-hormones. Without sufficient D-hormone levels, PTH secretion is increased and calcium absorption in the small intestine is reduced, leading to hypocalcemia and eventually to bone disease.

Hyperparathyroidism is a disease characterized by excessive secretion of PTH by the parathyroid glands. The medical community classifies hyperparathyroidism as either "primary" or "secondary," depending on the underlying cause. Primary hyperparathyroidism is less common and is caused by a disorder in one or more of the parathyroid glands, usually a tumor. Surgical removal of the affected parathyroid glands is the only effective treatment. Secondary hyperparathyroidism is the more common type of hyperparathyroidism and

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is caused by diseases unrelated to the parathyroid glands. It is seen in varying severity in virtually all ESRD patients, in whom normal kidney function is lost and dialysis is required for survival. Secondary hyperparathyroidism in renal disease continues and worsens unless treated with D-hormone therapy.

The goals of D-hormone therapy in this setting are to decrease blood PTH levels and to normalize blood calcium, thereby treating or preventing bone disease, and other adverse effects of elevated PTH. There are other vitamin D-hormones on the market which have been approved for the treatment of secondary hyperparathyroidism and are competing with Hectorol. The three key competing products are calcitriol, paricalcitol and alfacalcidol. The challenge in administering vitamin D hormone therapy is to deliver a sufficiently high dose to be effective without causing toxic side effects, including:

- Excessive phosphorus and/or calcium in the blood, which increases the risk that mineral deposits will develop in soft tissues, such as in the heart and arteries, contributing to cardiac disease, or in the kidneys, accelerating kidney failure in CKD patients.
- Excessive phosphorus in the blood, which stimulates secretion of PTH by the parathyroid glands and exacerbates secondary hyperparathyroidism.
- Excessive calcium in the urine, which increases the risk that calcium-rich deposits will develop in the kidneys and accelerate kidney failure in CKD patients.

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Due to the risks of these side effects, D-hormones are customarily administered at low dosages. Starting dosages are increased cautiously, to minimize the chance of these toxic side effects and optimize therapeutic response. The pharmacokinetic profiles of calcitriol and paricalcitol typically demonstrate supraphysiological spikes occurring rapidly after administration, followed by trough levels at concentrations below the physiologic range of activated vitamin D. This is in contrast to the relatively constant blood levels of D-hormones that are maintained in individuals with normal kidney function without side effects, yielding consistent, efficient regulation of PTH secretion.

Currently United States physicians and dialysis providers favor intravenous products because of several factors: (1) Medicare reimbursement is only available for intravenous products; (2) repeated oral delivery of active D-hormones promotes their breakdown in the intestine, thereby increasing intestinal absorption of calcium and reducing the amount delivered to the parathyroid glands; and (3) healthcare professionals can assure patient compliance with drug administration at the time of dialysis.

### THE BONE CARE SOLUTION

We have two FDA approved products to treat secondary hyperparathyroidism in ESRD patients: Hectorol Injection and Hectorol Capsules. Hectorol offers:

- Safe and Effective Treatment. Data obtained from our clinical trials have demonstrated that Hectorol is a safe and effective therapy for treating secondary hyperparathyroidism in ESRD patients. In these trials, Hectorol reduced blood levels of PTH in more than 90% of the treated patients with minimal side effects. Based on these and other trials, we believe that Hectorol compares favorably to competitive D-hormones,

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including calcitriol, paricalcitol and alfacalcidol; however, we have not performed comparative trials to demonstrate these conclusions.

- Oral Delivery that Expands Market Opportunities. Hectorol Capsules provide a safe, convenient and effective oral vitamin D therapy for the management of PTH levels in patients with CKD. Oral Hectorol has the potential to be used in other clinical settings besides CKD. Intravenous D-hormone products are used only in hemodialysis patients under medical supervision. Competitive intravenous D-hormones may be less well suited for oral delivery because they are fully active on delivery, which can cause certain cells lining the small intestine to absorb too much calcium and phosphorus, leading to side effects. Hectorol, on the other hand, is an inactive pro-hormone that, after oral delivery, is not available to these intestinal cells.
- A Pro-Hormone that Provides Consistent Levels of Natural D-Hormones. Hectorol is a vitamin D pro-hormone, an inactive vitamin D analog that is metabolized by the liver into two active and naturally occurring D-hormones. Activated Hectorol is released into the bloodstream at a rate which mimics the normal physiologic production of active D-hormones by normal kidneys. Normal physiologic blood levels of D-hormones allow efficient regulation of PTH secretion by the parathyroid glands with few side effects.
- A Potentially Wider Therapeutic Window. We believe that there is indirect evidence that Hectorol has a wider range, or therapeutic window, between a minimum effective dose and a dose with significant side effects as compared to other D-hormone therapies. Animal studies have demonstrated that Hectorol has fewer side effects than calcitriol or alfacalcidol when delivered at doses of equivalent potency. No clinical trials directly comparing Hectorol to any other D-hormone therapy in ESRD patients have been conducted. We have not conducted any comparative trials of D-hormones in any human subjects. A wider therapeutic window would improve safety and facilitate patient management.

### OUR STRATEGY

Our strategy is to develop new D-hormone products and commercialize our two approved products, Hectorol Injection and Hectorol Capsules, by:

- Expanding Our Sales and Marketing Infrastructure. We will continue to develop our internal sales and marketing capabilities to address the over \$500 million D-hormone market in the United States for ESRD patients and for related markets that could be effectively addressed with a small, highly targeted sales and marketing effort. We will seek to establish mutually beneficial alliances or marketing agreements with partners who can rapidly penetrate geographic markets and therapeutic areas where we have no current or planned sales presence.
- Competitively Pricing Hectorol. Hectorol Injection is priced in the United States at a modest premium to the older D-hormone, calcitriol, but below the more recently launched D-hormone, paricalcitol. We believe Hectorol's competitive pricing will create interest by third-party payors and

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facilitate its acceptance in the United States market.  
Hectorol

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Capsules also represent an attractive cost-effective alternative to intravenous D-hormone therapies. While oral D-hormone therapies are not reimbursed by Medicare, they are favored outside of the United States. We are the only company with both an oral and intravenous D-hormone product approved for treatment of dialysis patients in the United States, and we believe we are well positioned to take advantage of changes in preference for the method of delivery.

- Expanding the Approved Indications for Hectorol Capsules. We filed a supplemental New Drug Application with the FDA in December 2001 to treat secondary hyperparathyroidism in CKD patients. We do not have plans to request FDA approvals for other new indications in the next two years.
- Developing Additional Product Offerings. We will continue to use our research, clinical and regulatory expertise to seek to develop our other patented D-hormones for targeted diseases, such as osteoporosis in elderly patients, as well as for psoriasis and cancers where vitamin D therapy may be of benefit, such as cancers of the prostate, breast and colon.

### OUR PRODUCTS

Our objective is to discover, develop and commercialize vitamin D-hormone therapies with improved safety and efficacy profiles to treat a variety of diseases where current treatments are either unavailable or inadequate. Comparative studies in several animal species have demonstrated that our vitamin D technologies potentially have an improved therapeutic index as compared to other vitamin D analogs. In pre-clinical models, Hectorol and/or LR-103 are 3 to 30 times less toxic when administered at doses with equivalent potency as compared to calcitriol and/or alfacalcidol. Additional animal studies have shown that, unlike Hectorol and LR-103, competitive D-hormone therapies cause significant calcium deposits in the kidneys when delivered in doses equivalent to those used to treat patients. We cannot be certain, however, that additional clinical studies will support our conclusion that Hectorol has a wider therapeutic window than other D-hormone therapies.

### HECTOROL INJECTION

We developed Hectorol Injection for use in the approximately 315,000 ESRD patients in the United States who undergo hemodialysis three times per week. Our FDA submission included data from two Phase III trials which included a total of 70 patients and consisted of an eight-week monitoring period in which no D-hormone therapies were given, followed by a 12-week period in which patients received open-label treatment with Hectorol Injection at hemodialysis. The study endpoint for effectiveness was the observed reduction in blood PTH levels, and the endpoints for safety were the observed rates of hypercalcemia and hyperphosphatemia. In both trials, after 12 weeks of open-label treatment, mean blood PTH levels were reduced 40 to 50%. These reductions were statistically significant (p