

## SCHEDULE 13G

(Rule 13d-102)

Information to be Included in Statements Filed Pursuant to Rule 13d-1(b), (c) and (d) and Amendments Thereto Filed Pursuant to Rule 13d-2.

### SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Under the Securities Exchange Act of 1934

(Amendment No. )\*

**MacroPore, Inc.**

(Name of Issuer)

**Common Stock, \$0.001 par value**

(Title of Class of Securities)

(CUSIP Number)

**December 31, 2001**

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

// Rule 13d-1(b)

// Rule 13d-1(c)

/x/ Rule 13d-1(d)

\*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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CUSIP No. 13G Page 2 of 7 Pages

1 NAMES OF REPORTING PERSONS/I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Medtronic, Inc. (41-0793183)

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) \*\*

(a) //

(b) //

\*\*Joint Filing

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Minnesota

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH

5 SOLE VOTING POWER

1,000,000

6 SHARED VOTING POWER

7 SOLE DISPOSITIVE POWER

1,000,000

8 SHARED DISPOSITIVE POWER

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

1,000,000

10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) //

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

6.6%

12 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

CO

CUSIP No.

13G

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1 NAMES OF REPORTING PERSONS/I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Medtronic International, Ltd. (41-1278948)

2 CHECK THE APPROPRIATE BOX IF A  
MEMBER OF A GROUP (SEE  
INSTRUCTIONS) \*\*

(a) //  
(b) //

\*\*Joint Filing

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH  
REPORTING PERSON WITH

5 SOLE VOTING POWER

1,000,000

6 SHARED VOTING POWER

7 SOLE DISPOSITIVE POWER

1,000,000

8 SHARED DISPOSITIVE POWER

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

1,000,000

10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) //

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11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

6.6%

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12 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

CO

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Answer every item. If an item is inapplicable or the answer is negative, so state:

**Item 1(a) Name of Issuer:**

MacroPore, Inc.

**Item 1(b) Address of Issuer's Principal Executive Offices:**

6740 Top Gun Street  
San Diego, California 92121

**Item 2(a) Name of Person Filing:**

See Cover Pages, Item 1

**Item 2(b) Address of Principal Business Office or, if none, residence:**

710 Medtronic Parkway  
Minneapolis, Minnesota 55432-5604

**Item 2(c) Citizenship:**

See Cover Pages, Item 4

**Item 2(d) Title of Class of Securities:**

Common Stock, \$0.001 par value

**Item 2(e) CUSIP No.:**

See Cover Pages

**Item 3 If this statement is filed pursuant to Rule 13d-1(b), or 13d-2(b) or (c), check whether the person filing is a:**

- (a) // Broker or dealer registered under Section 15 of the Exchange Act.
- (b) // Bank as defined in Section 3(a)(b) of the Exchange Act.
- (c) // Insurance company as defined in Section 3(a)(19) of the Exchange Act.
- (d) // Investment company registered under Section 8 of the Investment Company Act.
- (e) // An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E).
- (f) // An employee benefit plan or endowment fund in accordance with Rule 13d 1(b)(1)(ii)(F).
- (g) // A parent holding company or control person in accordance with Rule 13d 1(b)(1)(ii)(G).
- (h) // A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act.
- (i) // A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act.
- (j) // Group, in accordance with Rule 13d-1(b)(1)(ii)(J).

If this statement is filed pursuant to Rule 13d-1(c), check this box. //



Carol E. Malkinson  
*Senior Legal Counsel and Assistant Secretary*

MEDTRONIC INTERNATIONAL, LTD.

By:                     /s/ CAROL E. MALKINSON                    

Carol E. Malkinson  
*Assistant Secretary*

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QuickLinks

[AGREEMENT TO MAKE A JOINT FILING](#)