BIOVAIL CORP INTERNATIONAL Form 6-K August 05, 2004

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# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## FORM 6-K

## REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16 OR 15d-16 OF THE SECURITIES EXCHANGE ACT OF 1934

August 5, 2004

Commission File Number 001-11145

## **BIOVAIL CORPORATION**

(Translation of Registrant's name into English)

7150 Mississauga Road, Mississauga, Ontario, CANADA, L5N 8M5 (Address of principal executive office and zip code)

Registrant's telephone number, including area code: (905) 286-3000

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F.

Form 20-F ý Form 40-F o

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1).

Yes o No ý

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7).

Yes o No ý

Indicate by check mark whether by furnishing the information contained in this form the registrant is also hereby furnishing the information to the Commission pursuant to Rule 12g 3-2(b) under the Securities Exchange Act of 1934.

Yes o No ý

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#### **BIOVAIL CORPORATION**

This Report of Foreign Private Issuer on Form 6-K is incorporated by reference into the registration statement on Form S-8 (Registration No. 333-92229) of Biovail Corporation.

#### INDEX

Exhibit 99.1 Material Change Report Dated August 4, 2004

Exhibit 99.2 Press Release Dated August 4, 2004

### SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

**BIOVAIL CORPORATION** 

Date: August 5, 2004

By: /s/ JOHN R. MISZUK

John R. Miszuk Vice President, Controller and Assistant Secretary QuickLinks

BIOVAIL CORPORATION INDEX SIGNATURES