MCNEIL BARBARA J

Form 4

February 21, 2006

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

OMB 3235-0287 Number:

Check this box if no longer subject to

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

January 31, Expires: 2005

0.5

OMB APPROVAL

Section 16. Form 4 or Form 5 obligations

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

30(h) of the Investment Company Act of 1940

burden hours per response...

Estimated average

may continue. See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * MCNEIL BARBARA J

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to

Symbol

EDWARDS LIFESCIENCES CORP

(Check all applicable)

[EW]

(Middle)

(Zip)

(Last)

3. Date of Earliest Transaction

X Director Officer (give title

10% Owner Other (specify

C/O EDWARDS LIFESCIENCES CORPORATION, ONE EDWARDS

(Street)

(First)

WAY

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check

Filed(Month/Day/Year)

(Month/Day/Year)

02/16/2006

X Form filed by One Reporting Person Form filed by More than One Reporting

Applicable Line)

Issuer

IRVINE, CA 92614

(City) (State) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1.Title of Security (Instr. 3)

Stock

2. Transaction Date 2A. Deemed (Month/Day/Year) Execution Date, if

(Month/Day/Year)

3. 4. Securities TransactionAcquired (A) or Disposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8)

5. Amount of Securities Beneficially Owned Following Reported

6. Ownership 7. Nature of Form: Direct Indirect (D) or Beneficial Indirect (I) Ownership (Instr. 4) (Instr. 4)

(A)

Transaction(s) (Instr. 3 and 4) Price

Common 02/16/2006

Code V Amount (D) 5,000 Α (1)

\$0 5,000 D

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of **SEC 1474** information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

(9-02)

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1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	4. Transacti Code (Instr. 8)	Securities Acquired (A) or Disposed of (D) (Instr. 3,	.	ate	Amou Under Securi	Citle and count of derlying urities str. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene Own Follo Repo Trans (Instr
			Code V	4, and 5) (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		

Reporting Owners

Reporting Owner Name / Address

Director 10% Owner Officer Other

MCNEIL BARBARA J C/O EDWARDS LIFESCIENCES CORPORATION ONE EDWARDS WAY IRVINE, CA 92614



Signatures

/s/ Jay P. Wertheim, Attorney-in-fact

02/21/2006

**Signature of Reporting Person

Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) Reflects unvested restricted stock units granted on February 16, 2006.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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