Rice Michael Form 4 February 17, 2010

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

3235-0287

Expires:

January 31, 2005

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response...

if no longer subject to Section 16. Form 4 or Form 5

obligations

may continue.

See Instruction

Check this box

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

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * Rice Michael

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to

Issuer

BIOLIFE SOLUTIONS INC [BLFS]

(Middle) (Last) (First)

3. Date of Earliest Transaction

(Check all applicable)

C/O BIOLIFE SOLUTIONS. INC., 3303 MONTE VILLA

PARKWAY

Security

(Instr. 3)

(Month/Day/Year)

02/05/2010

_X__ Director 10% Owner X_ Officer (give title Other (specify below)

6. Individual or Joint/Group Filing(Check

President, CEO

(Street)

4. If Amendment, Date Original

Filed(Month/Day/Year) Applicable Line)

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

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

BOTHELL, WA 98021

(City) (State) (Zip) 1. Title of 2. Transaction Date 2A. Deemed

3. 4. Securities (Month/Day/Year) Execution Date, if TransactionAcquired (A) or Code Disposed of (D)

(Instr. 8)

5. Amount of 6. Ownership 7. Nature of Securities Form: Direct Indirect Beneficially (D) or Indirect Beneficial Owned (I) Ownership

(Instr. 4)

(Instr. 4)

Following Reported

(A) Transaction(s) or (Instr. 3 and 4)

Code V Amount (D) Price

(Instr. 3, 4 and 5)

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

(Month/Day/Year)

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)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)

3. Transaction Date 3A. Deemed 6. Date Exercisable and 1. Title of 5. Number of (Month/Day/Year) Execution Date, if TransactionDerivative **Expiration Date** Derivative Conversion

Title and Amount of

Underlying Securities

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| Security (Instr. 3) | or Exercise Price of Derivative Security | | any (Month/Day/Year) | Code (Instr. 8) | Securities Acquired (A) Disposed of ((Instr. 3, 4, ar | (D) | (Month/Day/ | Year) | (Instr. 3 and 4) | |
|-----------------------|---|------------|-------------------------|-----------------|--|-----|---------------------|--------------------|------------------|----------------------------|
| | | | | Code V | V (A) | (D) | Date Exercisable | Expiration Date | Title | Amount Number Shares |
| Option (right to buy) | \$ 0.1 | 02/05/2010 | | A | 1,190,878 | | <u>(1)</u> | 02/04/2020 | Common Stock | 1,190, |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | | | | |
|---|---------------|-----------|-------------------|-------|--|--|--|
| Fg | Director | 10% Owner | Officer | Other | | | |
| Rice Michael C/O BIOLIFE SOLUTIONS, INC. 3303 MONTE VILLA PARKWAY | X | | President, CEO | | | | |
| BOTHELL WA 98021 | | | | | | | |

Signatures

/s/ Michael Rice
02/17/2010

**Signature of Date
Reporting Person

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) Vests equally over four years commencing at 02/05/2011.

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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