

Mathew Aby J.  
Form 3  
August 20, 2012

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

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**INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES**

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

(Print or Type Responses)

|   |         |                                      |  |  |
|---|---------|--------------------------------------|--|--|
| 1. Name and Address of Reporting Person * |         | 2. Date of Event Requiring Statement | 3. Issuer Name <b>and</b> Ticker or Trading Symbol                         |  |
| Mathew Aby J.                             |         | (Month/Day/Year)                     | BIOLIFE SOLUTIONS INC [BLFS]   |  |
| (Last)                                    | (First) | (Middle)                             | 08/10/2012   |  |
| 3303 MONTE VILLA PARKWAY, #310            |         |                                      | 4. Relationship of Reporting Person(s) to Issuer                           | 5. If Amendment, Date Original Filed(Month/Day/Year)                   |
| (Street)                                  |         |                                      | (Check all applicable)   |  |
| BOTHELL, WA 98021                         |         |                                      | <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner       | 6. Individual or Joint/Group Filing(Check Applicable Line)             |
| (City)                                    | (State) | (Zip)                                | <input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other | <input checked="" type="checkbox"/> Form filed by One Reporting Person |
|   |         |                                      | (give title below) (specify below)   | <input type="checkbox"/> Form filed by More than One Reporting Person  |
|   |         |                                      | Senior VP  |  |

**Table I - Non-Derivative Securities Beneficially Owned**

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---------------------------------|---|--|---|
| Common Stock                    | 471,036   | D  |   |

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

SEC 1473 (7-02)

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

**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

| 1. Title of Derivative Security (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) | 4. Conversion or Exercise Price of Derivative Security | 5. Ownership Form of Derivative Security: Direct (D) | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|--|--|---|--|--|---|
|--|--|---|--|--|---|

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|                             | Date Exercisable | Expiration Date | Amount or Number of Shares |         | or Indirect (I) (Instr. 5) |     |
|-----------------------------|------------------|-----------------|----------------------------|---------|----------------------------|-----|
| Stock Option (right to buy) | Â (1)            | 09/28/2015      | Common Stock               | 60,000  | \$ 0.08                    | D Â |
| Stock Option (right to buy) | Â (2)            | 10/12/2016      | Common Stock               | 100,000 | \$ 0.07                    | D Â |
| Stock Option (right to buy) | Â (3)            | 02/07/2017      | Common Stock               | 500,000 | \$ 0.08                    | D Â |
| Stock Option (right to buy) | Â (4)            | 08/07/2017      | Common Stock               | 340,000 | \$ 0.1                     | D Â |
| Stock Option (right to buy) | Â (5)            | 02/11/2018      | Common Stock               | 100,000 | \$ 0.05                    | D Â |
| Stock Option (right to buy) | Â (6)            | 11/05/2018      | Common Stock               | 100,000 | \$ 0.04                    | D Â |
| Stock Option (right to buy) | Â (7)            | 02/05/2020      | Common Stock               | 531,532 | \$ 0.1                     | D Â |
| Stock Option (right to buy) | Â (8)            | 02/11/2021      | Common Stock               | 776,316 | \$ 0.08                    | D Â |
| Stock Option (right to buy) | Â (9)            | 02/15/2022      | Common Stock               | 250,000 | \$ 0.1                     | D Â |

## Reporting Owners

| Reporting Owner Name / Address   | Relationships |           |             |       |
|--|---------------|-----------|-------------|-------|
|  | Director      | 10% Owner | Officer     | Other |
| Mathew Aby J.<br>3303 MONTE VILLA PARKWAY<br>#310<br>BOTHELL, WA 98021 | Â             | Â         | Â Senior VP | Â     |

## Signatures

/s/ Aby J  
Mathew  
Date: 08/17/2012

\*\*Signature of Reporting Person

## Explanation of Responses:

- \* If the form is filed by more than one reporting person, see Instruction 5(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) Exercisable in four equal annual installments commencing on 9/28/2006
- (2) Exercisable in four equal annual installments commencing on 10/12/2007
- (3) Exercisable in four equal annual installments commencing on 02/07/2008
- (4) Exercisable in four equal annual installments commencing on 08/07/2008

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- (5) Exercisable in four equal annual installments commencing on 02/11/2009
- (6) Exercisable in four equal annual installments commencing on 11/05/2009
- (7) Exercisable in four equal annual installments commencing on 02/05/2011
- (8) Exercisable in four equal annual installments commencing on 02/11/2012
- (9) Exercisable to the extent of 62,500 on 2/15/2013, and remaining balance exercisable to the extent of 1/36th thereof on the 15th day of each month commencing on 3/15/2013.

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.