

REPLIDYNE INC  
Form SC 13G/A  
January 11, 2008

**SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

**SCHEDULE 13G**  
**(Amendment No. 3)**

Under the Securities Exchange Act of 1934

Replidyne, Inc.  
(Name of Issuer)

Common Stock, \$0.001 par value  
(Title of Class of Securities)

76028W107  
(CUSIP Number)

January 1, 2008  
(Date of Event Which Requires Filing of this Statement)

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

- Rule 13d-1(b)
- Rule 13d-1(c)
- 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 in 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).

CUSIP No. 76028W107

1. **Names of Reporting Persons**  
**I.R.S. Identification Nos. of above persons (entities only)**  
 D. E. Shaw Composite Portfolios, L.L.C.  
 13-4152438

2. **Check the Appropriate Box if a Member of a Group (See Instructions)**  
 (a)   
 (b)

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**

-0-

6. **Shared Voting Power**

-0-

7. **Sole Dispositive Power**

-0-

8. **Shared Dispositive Power**

-0-

9. **Aggregate Amount Beneficially Owned by Each Reporting Person**  
 -0-

10. **Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)**

11. **Percent of Class Represented by Amount in Row (9)**  
 0.0%

12. **Type of Reporting Person (See Instructions)**  
 OO

CUSIP No. 76028W107

1. **Names of Reporting Persons**  
**I.R.S. Identification Nos. of above persons (entities only)**  
 D. E. Shaw Valence Portfolios, L.L.C.  
 13-4046559
2. **Check the Appropriate Box if a Member of a Group (See Instructions)**  
 (a)   
 (b)
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**

-0-

**6. Shared Voting Power**  
2,420,153

**7. Sole Dispositive Power**  
-0-

**8. Shared Dispositive Power**  
2,420,153

9. **Aggregate Amount Beneficially Owned by Each Reporting Person**  
2,420,153

10. **Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)**

11. **Percent of Class Represented by Amount in Row (9)**  
8.9%

12. **Type of Reporting Person (See Instructions)**  
OO

CUSIP No. 76028W107

1. **Names of Reporting Persons**  
**I.R.S. Identification Nos. of above persons (entities only)**  
 D. E. Shaw & Co., L.L.C.  
 13-3799946

2. **Check the Appropriate Box if a Member of a Group (See Instructions)**  
 (a)   
 (b)

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**

-0-

6. **Shared Voting Power**

-0-

7. **Sole Dispositive Power**

-0-

8. **Shared Dispositive Power**

-0-

9. **Aggregate Amount Beneficially Owned by Each Reporting Person**  
 -0-

10. **Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)**

11. **Percent of Class Represented by Amount in Row (9)**  
 0.0%

12. **Type of Reporting Person (See Instructions)**  
 OO

**CUSIP No. 76028W107**

**1. Names of Reporting Persons**  
**I.R.S. Identification Nos. of above persons (entities only)**  
 D. E. Shaw & Co., L.P.  
 13-3695715

**2. Check the Appropriate Box if a Member of a Group (See Instructions)**  
 (a)   
 (b)

**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**

-0-

**6. Shared Voting Power**  
 2,420,153

**7. Sole Dispositive Power**  
 -0-

**8. Shared Dispositive Power**  
 2,420,153

**9. Aggregate Amount Beneficially Owned by Each Reporting Person**  
 2,420,153

**10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)**