

REPLIDYNE INC  
Form 8-K  
July 31, 2007

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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549  
FORM 8-K  
CURRENT REPORT  
Pursuant to Section 13 OR 15(d) of  
The Securities Exchange Act of 1934  
Date of Report July 31, 2007  
REPLIDYNE, INC.  
(Exact name of registrant as specified in its charter)**

**Delaware**  
*(State or other jurisdiction of  
incorporation or organization)*

**000-52082**  
*(Commission File Number)*

**84-1568247**  
*(I.R.S. Employer  
Identification No.)*

**1450 Infinite Drive,  
Louisville, Colorado**  
*(Address of principal executive offices)*

**80027**  
*(Zip Code)*

**303-996-5500**  
*(Registrant's telephone number, including area code)*

**Not Applicable**

*(Former name, former address and former fiscal year, if changed since last report)*

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
  - Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
  - Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
  - Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
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Item 2.02 Results of Operations and Financial Condition

Item 9.01 Financial Statements and Exhibits

SIGNATURE

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Press Release

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**INFORMATION TO BE INCLUDED IN THE REPORT**

**Item 2.02 Results of Operations and Financial Condition.**

On July 31, 2007, Replidyne, Inc. issued a press release reporting its results of operations for the second quarter of fiscal 2007 ending June 30, 2007. A copy of the press release is attached as Exhibit 99.1 to this current report on Form 8-K and incorporated by reference herein.

The information in this item (including Exhibit 99.1) is being furnished pursuant to Item 2.02 and shall not be deemed to be filed for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the Exchange Act ), or otherwise subject to the liabilities of that section, nor shall it be deemed to be incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act.

**Item 9.01 Financial Statements and Exhibits.**

**(d) Exhibits.**

99.1 Press Release dated July 31, 2007 reporting its results of operations for the second quarter of fiscal 2007.

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**SIGNATURE**

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 hereunto duly authorized.

**REPLIDYNE, INC.**

Dated: July 31, 2007

By: /s/ Mark L. Smith  
Mark L. Smith  
Chief Financial Officer  
Principal Accounting Officer

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**EXHIBIT INDEX**

Exhibit	Description
99.1	Press Release dated July 31, 2007 reporting its results of operations for the second quarter of fiscal 2007.