

REPLIDYNE INC  
Form 8-K  
March 27, 2008

**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 (Date of earliest event reported): March 27, 2008 (March 27, 2008)

**REPLIDYNE, INC.**

(Exact name of registrant as specified in its charter)

**Delaware**

*(State or other jurisdiction of  
incorporation)*

**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 5.02 Departure of Directors or Principal Officers; Election of Directors; Appointment of Certain Officers; Compensatory Arrangements of Certain Officers.**

(b) On March 27, 2008, Christopher D. Earl, Ph.D. notified Replidyne, Inc. (the Company ) of his resignation from the Board of Directors of the Company, effective immediately.

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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: March 27, 2008

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