

IR BIOSCIENCES HOLDINGS INC  
Form NT 10-K  
March 31, 2011

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UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, DC 20549

FORM 12b-25  
NOTIFICATION OF LATE FILING

(Check One):  Form 10-K  Form 20-F  Form 11-K  Form 10-Q  Form 10-D  Form N-SAR  
 Form N-CSR

For Period Ended: December 31, 2010

- Transition Report on Form 10-K
- Transition Report on Form 20-F
- Transition Report on Form 11-K
- Transition Report on Form 10-Q
- Transition Report on Form N-SAR

For the Transition Period Ended:

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PART I  
REGISTRANT INFORMATION

IR BioSciences  
Holdings, Inc.  
Full Name of  
Registrant

N/A  
Former Name if  
Applicable

8777 E. Via De  
Ventura, Suite 280  
Address of Principal  
Executive Office  
(Street and Number)

Scottsdale, AZ 85258  
City, State and Zip  
Code

PART II  
Rules 12b-25(b) AND (c)

If the subject report could not be filed without unreasonable effort or expense and the registrant seeks relief pursuant to Rule 12b-25(b), the following should be completed. (Check box if appropriate)

- (a) The reasons described in reasonable detail in Part III of this form could not be eliminated without unreasonable effort or expense;
- (b) The subject annual report, semi-annual report, transition report on Form 10-K, Form 20-F, 11-K, Form N-SAR, or portion thereof, will be filed on or before the fifteenth calendar day following the prescribed due date; or the subject quarterly report of transition report on Form 10-Q, or portion thereof will be filed on or before the fifth calendar day following the prescribed due date; and
- (c) The accountant's statement or other exhibit required by Rule 12b-25(c) has been attached if applicable.

PART III  
NARRATIVE

State below in reasonable detail the reasons why Forms 10-K, 20-F, 11-K, 10-Q, 10-QSB, N-SAR, N-CSR or the transition report portion thereof could not be filed within the prescribed time period.

The Company has not been able to compile the requisite financial data and other narrative information necessary to enable it to complete the Company's Annual Report on Form 10-K by March 31, 2011 without unreasonable effort and expense.

PART IV  
OTHER INFORMATION

(1) Name and telephone number of person to contact in regard to this notification

John Fermanis  
(Name)

(480)  
(Area Code)

922-3926  
(Telephone Number)

(2) Have all other periodic reports required under Section 13 or 15(d) of the Securities Exchange Act of 1934 or Section 30 of the Investment Company Act of 1940 during the preceding 12 months or for such shorter period that the registrant was required to file such report(s) been filed? If answer is no, identify report(s).  Yes  No

(3) Is it anticipated that any significant change in results of operations from the corresponding period for the last fiscal year will be reflected by the earnings statement to be included in the subject report or portion thereof?  Yes  No

If so, attach an explanation of the anticipated change, both narratively and quantitatively, and, if appropriate, state the reasons why a reasonable estimate of the results cannot be made.

IR BioSciences Holdings, Inc.  
(Name of Registrant as Specified in Charter)

has caused this notification to be signed on its behalf by the undersigned hereunto duly authorized.

Date: March 31, 2011

By: /s/ Michael K.  
Wilhelm  
Michael K. Wilhelm  
Chief Executive Officer