

TERAYON COMMUNICATION SYSTEMS

Form NT 10-K

March 16, 2007

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 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, 2006

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:

Read Instruction Before Preparing Form. Please Print or Type.

Nothing in this form shall be construed to imply that the Commission has verified any information contained herein.

If the notification relates to a portion of the filing checked above, identify the Item(s) to which the notification relates:

PART I REGISTRANT INFORMATION

Terayon Communication Systems, Inc.

Full Name of Registrant

N/A

Former Name if Applicable

2450 Walsh Avenue

Address of Principal Executive Office (*Street and Number*)

Santa Clara, CA 95051

City, State and Zip Code

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

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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 (b) The subject annual report, semi-annual report, transition report on Form 10-K, Form 20-F, Form 11-K, Form N-SAR or Form N-CSR, or portion thereof, will be filed on or before the fifteenth calendar day following the prescribed due date; or the subject quarterly report or transition report on Form 10-Q or subject distribution report on Form 10-D, 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.
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PART III NARRATIVE

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

Terayon Communication Systems, Inc. (the Company) is unable, without unreasonable effort or expense, to file its Annual Report on Form 10-K for the fiscal year ended December 31, 2006 (the 2006 Form 10-K) with the Securities and Exchange Commission (SEC) by March 16, 2007 because the Company requires additional time to complete its consolidated financial statements for the year ended December 31, 2006. Additionally, the Company is still in the process of providing information necessary for its independent auditor to complete its documentation and related audit procedures in connection with the audit of the financial information contained in the 2006 Form 10-K.

The Company intends to file its 2006 Form 10-K as soon as practicable, and in any event within the 15-day extension period afforded by SEC Rule 12b-25 under the Securities Exchange Act of 1934, as amended.

PART IV OTHER INFORMATION

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

Mark Richman	(408)	235-5702
(Name)	(Area Code)	(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 statements 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.

Terayon Communication Systems, 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 16, 2007

By: /s/ Mark Richman

Name: Mark Richman

Title: Chief Financial Officer