

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

FORM 13F

FORM 13F COVER PAGE

Report for the Calendar Year or Quarter Ended: December 29, 2006

Check here if Amendment [x]; Amendment Number: 2
This Amendment (Check only one.): [] is a restatement.
[x] adds new holdings entries.

Institutional Investment Manager Filing this Report:

Name: MERRILL LYNCH AND CO., INC.
Address: 4 World Financial Center
New York, NY 10080

13F File Number: 028-03554

The institutional investment manager filing this report and the person by whom it is signed hereby represent that the person signing the report is authorized to submit it, that all information contained herein is true, correct and complete, and that it is understood that all required items, statements, schedules, and tables, are considered integral parts of this form. The institutional investment manager has exercised discretion with respect to the number of shares in Psi Technologies Holdings, Inc. reflected below, continuously since March 31, 2005, however, it has not been previously reported.

Person Signing this Report on Behalf of Reporting Manager:

Name: Pia K Thompson
Title: Director and Assistant Secretary
Phone: (212) 670-0425

Signature, Place and Date of Signing:

/s/ Pia K Thompson New York, NY May 15, 2007

Report Type (Check only one.):

[] 13F HOLDINGS REPORT.
[] 13F NOTICE.
[x] 13F COMBINATION REPORT.

FORM 13F SUMMARY PAGE

Report Summary:

Number of Other Included Managers:

1

Form 13F Information Table Entry Total:

4

Form 13F Information Table Value Total:

\$ 147,654 (thousands)

List of Other Included Managers:

No.	13F File Number	Name
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16		MERRILL LYNCH GROUP, INC
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FORM 13F

<TABLE>
 MERRILL LYNCH AND CO., INC.
 FORM 13F INFORMATION TABLE
 December 29, 2006

<CAPTION>
 COLUMN 1
 COLUMN 8

COLUMN 2 COLUMN 3 COLUMN 4 COLUMN 5 COLUMN 6 COLUMN 7

AUTHORITY		TITLE OF CLASS		CUSIP	VALUE	SHARES/	SH/PRN	INVTMT	OTHR	VOTING
NAME OF ISSUER	SHARED	OTHER			(x1000)	PRN AMT	PUT/CALL	DSCRETN	MGRS	SOLE
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<S>	<C>	<C>	<C>	<C>	<C>	<C>	<C>	<C>	<C>	<C>
BLACKROCK INC	COM		09247X101 9873500	65000000	SH	DEFINED	16	0	0	65000000
HERTZ GLOBAL HOLDINGS INC			0 75502928	42805T105	SH	DEFINED	1312996	75502928	16	0
IPG PHOTONICS CORP			0 9773	44980X109	SH	DEFINED	235	9773	16	0
PSI TECHNOLOGIES HLDGS INC			7141624	74438Q109 9998	SH	DEFINED	7141624	16	0	0

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