# 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): January 27, 2005

# **NCR CORPORATION**

(Exact name of registrant as specified in its charter)

Commission File Number 001-00395

Maryland (State or other jurisdiction of incorporation or organization) 31-0387920 (I.R.S. Employer Identification No.)

1700 S. Patterson Blvd.
Dayton, Ohio 45479
(Address of principal executive offices and zip code)

Registrant's telephone number, including area code: (937) 445-5000

 $$N\!/\!A$$  (Former name or former address, if changed since last report)

ck 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 isions (see General Instruction A.2 below):
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))

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

NCR Corporation (the "Company") is furnishing the following information as required under Item 2.02 "Results of Operations and Financial Condition" of Form 8-K. Such information, including the Exhibit attached hereto, shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, except as shall be expressly set forth by specific reference in such filing.

On January 27, 2005, the Company issued a press release announcing its fourth-quarter 2004 revenue, operating income and earnings per share amounts. The Company also provided revenue and earnings per share forecasts for the first quarter of 2005 and for the 2005 fiscal year. A copy of the press release is furnished as Exhibit 99.1 of this report and is incorporated herein by reference.

### Item 9.01 Financial Statements and Exhibits.

#### (c) Exhibits:

The following exhibits are filed with this current report on Form 8-K:

Exhibit Number	Description of Exhibit
99.1	Press Release dated January 27, 2005.

#### **SIGNATURES**

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 thereunto duly authorized.

#### NCR CORPORATION

Date: January 27, 2005 By: /s/ Peter J. Bocian

Peter J. Bocian Senior Vice President and Chief Financial Officer **Index to Exhibits** 

Exhibit No. Description

99.1 Press Release dated January 27, 2005.



1700 South Patterson Boulevard Dayton, OH 45479

NEWS RELEASE

For media information:

John Hourigan (937) 445-2078 john.hourigan@ncr.com For investor information:

Gregg Swearingen (937) 445-4700 gregg.swearingen@ncr.com

For Release on January 27, 2005

#### **NCR Reports Fourth-Quarter 2004 Results**

- Revenue increased 9 percent, led by double-digit growth in three core product segments
- Operating cash flow of \$195 million, a 17 percent increase from the fourth quarter of 2003
- 2-for-1 stock split became effective Jan. 21, 2005
- Further increasing 2005 earnings-per-share guidance to \$2.40 to \$2.50, on a pre-stock-split basis, \$1.20 to \$1.25 on a post-stock-split basis

**DAYTON, Ohio** – NCR Corporation (NYSE: NCR) today reported earnings of \$1.30 per pre-stock-split diluted share and revenue of \$1.79 billion for the quarter ended Dec. 31, 2004. The year-over-year revenue increase of 9 percent includes 3 percentage points of benefit from foreign currency fluctuations.

Operating income for the fourth quarter was \$129 million versus \$113 million in the prior-year period. Included in NCR's fourth-quarter operating results was \$33 million of pension expense, compared to the \$26 million of pension expense included in the fourth quarter of 2003.

NCR reported fourth-quarter net income of \$124 million, or \$1.30 per diluted share, versus net income of \$80 million, or \$0.84 per diluted share, in the fourth quarter of 2003.

These results include a \$13 million gain from a real estate transaction, \$5 million of costs associated with exiting real estate facilities and the release of a \$9 million reserve the company established in prior years when it anticipated losses on the sale of specifically identified subsidiaries, primarily in Africa. The company now plans to continue operations in these countries.

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Excluding these items, earnings per share for the fourth quarter were \$1.14<sup>(1)</sup>. NCR's tax rate for the fourth quarter of 2004 was 16 percent versus the 25 percent effective tax rate estimated at the end of the third quarter of 2004. The lower tax rate in the fourth quarter was due to an increased proportion of operating profits attributable to several foreign operations, which have lower effective tax rates due to prior-year losses. NCR's earnings per share for the quarter would have been \$1.02 if the 25 percent effective tax rate included in the company's fourth-quarter guidance had been applied to NCR's earnings, excluding the items described above. According to First Call, the mean estimate among Wall Street analysts for the fourth quarter was \$0.77 per share, on a pre-stock-split basis.

"The fourth quarter was one of the strongest quarters ever for NCR in terms of both revenue growth and operating profit. A favorable market environment enabled us to generate double-digit growth in our three core product segments, which positively leveraged our initiatives to improve the operating model at NCR," said Mark Hurd, president and chief executive officer of NCR.

"Entering 2005, we remain focused on making continued improvements to our operating model, including our actions to restructure our customer services business and stimulate revenue growth. Additionally, our improving operating model generates more free cash flow, which will allow us greater flexibility to invest for earnings-per-share expansion," said Hurd.

#### Operating Segment Results(2)

### **Teradata Data Warehousing**

NCR's Teradata Data Warehousing segment reported record fourth-quarter revenue of \$412 million, up 14 percent from the fourth quarter of 2003. The fourth-quarter year-over-year revenue comparison included a 3 percentage point benefit from currency fluctuations.

Operating income of \$72 million increased 18 percent from the fourth quarter of 2003 due to higher volume, improvement in services profitability and the positive effect of currency fluctuations.

#### **Financial Self Service**

The Financial Self Service segment generated record fourth-quarter revenue of \$451 million, up 15 percent from the year-ago period. Fourth-quarter revenue growth included a year-over-year benefit of 4 percentage points from currency fluctuations.

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Operating Income of \$88 million increased 14 percent from the fourth quarter of 2003 due to higher volume and expense reductions.

#### **Retail Store Automation**

For the fourth quarter of 2004, Retail Store Automation generated \$270 million of revenue, up 15 percent from the fourth quarter of 2003. The fourth-quarter year-over-year revenue comparison for Retail Store Automation included a benefit of 3 percentage points from currency fluctuations.

Retail Store Automation generated \$18 million of operating income in the quarter, an increase of 29 percent from the prior-year period, due to increased volume, expense reductions and the positive effect of currency fluctuations.

#### **Customer Services**

Customer Services reported revenue of \$482 million, the same as generated in the fourth quarter of 2003. The fourth-quarter year-over-year revenue comparison for Customer Services included a benefit of 3 percentage points from currency fluctuations.

The Customer Services operating segment generated \$5 million of operating income in the quarter, versus \$6 million of operating income in the fourth quarter of 2003. Operating profit was comparable to the fourth quarter of 2003, but better than expected, as actions to reduce cost offset continued pricing pressure and the remaining effects of declining revenue from exited businesses. The company's cost-reduction and revenue-mix actions are expected to improve Customer Services profitability in 2005.

#### **Non-Operating Items**

Other Income of \$18 million in the fourth quarter of 2004 compared to \$6 million of Other Expense in the prior-year period. Other Income in the fourth quarter of 2004 included a \$13 million gain from a real estate transaction and the release of a \$9 million reserve the company established in prior years when it anticipated losses on the sale of specifically identified subsidiaries, primarily in Africa. Due to a renewed/realigned operating strategy, the company now plans to continue operations in these countries.

The company's tax rate of 16 percent for the fourth quarter was lower than the 25 percent effective tax rate estimated at the end of the third quarter of 2004, due to more of the company's profit being generated in several foreign countries, which have lower effective tax rates due to

prior-year losses. NCR's total-year effective tax rate for 2004 was 20 percent, excluding the benefit of an \$85 million tax item in the second quarter. NCR expects its effective tax rate for 2005 to be 25 percent.

During the fourth quarter of 2004, the company repurchased approximately 2.6 million shares of NCR common stock for approximately \$157 million. In 2004, NCR repurchased approximately 8.6 million shares, which more than offset 6.6 million options that were exercised during the year.

### **Cash Flow**

NCR increased its cash from operations in the fourth quarter to \$195 million from \$167 million in the fourth quarter of 2003. Capital expenditures in the fourth quarter of 2004 were \$71 million, comparable to the \$70 million of capital expenditures in the year-ago period. NCR generated \$124 million of free cash flow (cash from operations less capital expenditures) in the fourth quarter of 2004 versus the \$97 million of free-cash-flow generation in the year-ago period.

For the year, cash provided by operating activity was \$436 million. After capital expenditures of \$254 million, NCR produced \$182 million of free cash flow in 2004.

	I	For the Period ended Dec. 31 (shown in millions)				
	Three M	Three Months		Months		
	2004	2003	2004	2003		
Cash provided by operating activities (GAAP)	\$195	\$167	\$ 436	\$ 441		
<u>Less</u> capital expenditures for:						
Net expenditures for reworkable service parts	(27)	(29)	(92)	(96)		
Expenditures for property, plant and equipment	(22)	(21)	(77)	(63)		
Additions to capitalized software	(22)	(20)	(85)	(70)		
Total capital expenditures	(71)	(70)	(254)	(229)		
Free cash flow (non-GAAP measure) (3)	\$124	\$ 97	\$ 182	\$ 212		

## **Balance Sheet**

NCR ended the fourth quarter with \$750 million in cash, cash equivalents and short-term investments, a meaningful increase from the \$625 million cash balance on Sept. 30, 2004. NCR's cash balance increased due to strong operating cash flow in the fourth quarter. As of Dec. 31, 2004, NCR had short- and long-term debt of \$309 million versus \$311 million on Sept. 30, 2004.

### Outlook

Assuming 3 percent to 4 percent revenue growth in 2005, NCR is further increasing its guidance for 2005 earnings per share, excluding stock option expense, to \$2.40 to \$2.50, on a pre-stock-split basis. On a post-stock-split basis, this revised guidance range equates to \$1.20 to \$1.25 per share.

For the first quarter, NCR expects 2 percent to 3 percent revenue growth. On a pre-stock-split basis, earnings per share in the seasonally weak first quarter are expected to be \$0.04 to \$0.10 versus the \$0.05 loss the company reported for the first quarter of 2004. On a post-stock-split basis, earnings per share are expected to be in the \$0.02 to \$0.05 range, versus the \$0.03 loss in the first quarter of 2004.

	First-Quarter 2005 Guidance	2005 Full-Year Guidance
Year-over-year revenue growth:	<del></del>	
Total NCR	2-3%	3-4%
Teradata Data Warehousing	5-7%	5-7%
Financial Self Service	8-10%	6-8%
Retail Store Automation	2-4%	5-6%
Customer Services	(2-3)%	(0-2)%
Systemedia	Flat	Flat
Payment & Imaging	(5-10)%	(8-10)%
Other	(25-30)%	(30-35)%
Earnings per share – GAAP pre-split	\$0.04 - \$0.10	\$2.40 - \$2.50
Earnings per share –GAAP post-split	\$0.02 -\$0.05	\$1.20 - \$1.25

#### 2004 Fourth-Quarter Earnings Conference Call

NCR's senior management will discuss the company's fourth-quarter results during a conference call today at 10:00 a.m. (ET). Access to the conference call, as well as a replay of the call, is available on NCR's Web site at <a href="http://investor.ncr.com/">http://investor.ncr.com/</a>. Supplemental financial information regarding NCR's 2004 fourth-quarter operating results is also available on NCR's Web site.

#### **About NCR Corporation**

NCR Corporation (NYSE: NCR) is a leading global technology company helping businesses build stronger relationships with their customers. NCR's ATMs, retail systems, Teradata® data warehouses and IT services provide Relationship Technology™ solutions that maximize the value of customer interactions and help organizations create a stronger competitive position. Based in Dayton, Ohio, NCR (<u>www.ncr.com</u>) employs approximately 28,500 people worldwide.

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NCR and Teradata are trademarks or registered trademarks of NCR Corporation in the United States and other countries.

NCR reports its results in accordance with Generally Accepted Accounting Principles in the United States, or GAAP. However, as described below, the company believes that certain non-GAAP measures found in this release are useful for investors.

(1) NCR's management looks at the company's earnings-per-share results excluding certain items to assess the financial performance of the company and believes this information is useful for investors because it provides a more complete understanding of NCR's underlying operational performance, as well as consistency and comparability with past reports of financial results. In addition, management uses its earnings per share excluding these items to manage and determine the effectiveness of its business managers and as a basis for incentive compensation. This non-GAAP measure should not be considered as a substitute for or superior to earnings per share determined in accordance with GAAP.

#### **Reconciliation of GAAP to Non-GAAP Measures**

Non-GAAP earnings-per-share measures exclude the effect of the items listed in this table.

	Resi	alts
	Q4 2004	Q4 2003
Earnings Per Share (GAAP)	\$ 1.30	\$ 0.84
Gains from real estate transactions	0.12	_
Charges associated with exiting real estate facilities	(0.04)	
Reversal of reserve previously taken in anticipation of exiting certain countries.	0.08	_
Adjusted Earnings Per Share (Non-GAAP)*	\$ 1.14	\$ 0.84

- \* The company's fourth-quarter 2004 non-GAAP adjusted earnings per share would have been further reduced from \$1.14 per share to \$1.02 per share if the previously estimated tax rate of 25 percent, which was included in NCR's guidance for the fourth quarter, had been applied to the results for the quarter.
- (2) The operating segment results discussed in this earnings release exclude the impact of \$33 million of pension expense in the fourth quarter of 2004 and \$26 million of pension expense in the fourth quarter of 2003. When evaluating the year-over-year performance of and making decisions regarding its operating segments, NCR excludes the effect of pension expense/income. Schedule B, included in this earnings release, reconciles total "Income from operations excluding pension expense/income" for all of the company's operating segments to "Total income from operations" for the company.
- (3) NCR defines free cash flow as cash provided by operating activities less capital expenditures for reworkable service parts, property, plant and equipment and additions to capitalized software. NCR's management uses free cash flow to assess the financial performance of the company and believes it is useful for investors because it relates the operating cash flow of the company to the capital that is spent to continue and improve business operations. In particular, free cash flow indicates the amount of cash generated after capital expenditures for, among other things, investment in the company's existing businesses, strategic acquisitions, strengthening the company's balance sheet, repurchase of company stock and repayment of the company's debt obligations. This non-GAAP measure should not be considered a substitute for or superior to cash flows from operating activities under GAAP, or as a proxy for cash flow available for discretionary spending.

#### **Note to Investors**

This news release contains forward-looking statements, including statements as to anticipated or expected results, beliefs, opinions and future financial performance, within the meaning of Section 21E of the Securities and Exchange Act of 1934. Forward-looking statements include projections of revenue, profit growth and other financial items, future economic performance and statements concerning analysts' earnings estimates, among other things. These forward-looking statements are based on current expectations and assumptions and involve risks and uncertainties that could cause NCR's actual results to differ materially.

In addition to the factors discussed in this release, other risks and uncertainties include: the uncertain economic climate and its impact on the markets in general or on the ability of our suppliers to meet their commitments to us, or the timing of purchases (including upgrades to existing data warehousing solutions and retail point-of-service solutions) by our current and potential customers and other general economic and business conditions; the timely development, production or acquisition and market acceptance of new and existing products and services (such as self-checkout and electronic shelf-labeling technologies, ATM outsourcing and enterprise data warehousing), including our ability to accelerate market acceptance of new products and services; shifts in market demands, continued competitive factors and pricing pressures and their impact on our ability to improve gross margins and profitability, especially in our more mature offerings; the effect of currency translation; short product cycles, rapidly changing technologies and maintaining competitive leadership position with respect to our solution offerings, particularly data warehousing technologies; tax rates; ability to execute our business and reengineering plans; turnover of workforce and the ability to attract and retain skilled employees, especially in light of recent cost-control measures taken by the company; availability and successful exploitation of new acquisition and alliance opportunities; changes in Generally Accepted Accounting Principles (GAAP) such as the future impact of expensing stock options and the resulting impact, if any, on the company's accounting policies; continued efforts to establish and maintain best-in-class internal information technology and control systems; and other factors detailed from time to time in the company's U.S. Securities and Exchange Commission reports and the company's annual reports to stockholders. The company does not undertake any obligation to publicly update or revise any forward-looking statemen



# CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS

(in millions, except per share amounts)

For the Periods Ended December 31

	Three I	Three Months		Twelve Months	
	2004	2003	2004	2003	
Revenue					
Products	\$1,013	\$ 898	\$3,164	\$2,835	
Services	775	745	2,820	2,763	
Fotal revenue	1,788	1,643	5,984	5,598	
Cost of products	660	548	2,037	1,800	
Cost of services	622	601	2,331	2,264	
Cotal gross margin	506	494	1,616	1,534	
% of Revenue	28.3%	30.1%	27.0%	27.49	
Selling, general and administrative expenses	309	319	1,141	1,171	
Research and development expenses	68	62	242	233	
Income from operations	129	113	233	130	
% of Revenue	7.2%	6.9%	3.9%	2.39	
Other (income) expense, net	(18)	6	(16)	58	
ncome before income taxes	147	107	249	72	
% of Revenue	8.2%	6.5%	4.2%	1.39	
ncome tax expense (benefit)	23	<u>27</u>	(36)	14	
Net income	\$ 124	\$ 80	\$ 285	\$ 58	
% of Revenue	6.9%	4.9%	4.8%	1.09	
On a Pre 2-for-1 stock split basis:					
Net income per common share					
Basic	\$ 1.33	\$ 0.85	\$ 3.03	\$ 0.61	
Diluted	\$ 1.30	\$ 0.84	\$ 2.97	\$ 0.61	
Weighted average common shares outstanding					
Basic	93.2	94.6	93.8	95.0	
Diluted	95.6	95.6	95.8	95.9	
On a Post 2-for-1 stock split basis:					
Net income per common share	¢ 0.67	¢ 0.40	¢ 1 50	¢ 0.21	
Basic	\$ 0.67	\$ 0.42	\$ 1.52	\$ 0.31	
Diluted	\$ 0.65	\$ 0.42	\$ 1.49	\$ 0.30	
Weighted average common shares outstanding					
Basic	186.4	189.2	187.6	190.0	
Diluted	191.1	191.3	191.5	191.7	



# NCR CORPORATION CONSOLIDATED REVENUE and OPERATING INCOME (LOSS) SUMMARY (in millions)

For the Periods Ended December 31

		Т	hree Months		Twelve Months		
	2	2004	2003	% Change	2004	2003	% Change
Revenue by segment							
Data Warehousing							
Data Warehousing solution	\$	336	\$ 291	15%	\$1,069	\$ 949	13%
Data Warehousing support services	_	76	70	9%	292	264	11%
Total Data Warehousing		412	361	14%	1,361	1,213	12%
Financial Self Service		451	392	15%	1,370	1,149	19%
Retail Store Automation		270	234	15%	864	797	8%
Systemedia		154	141	9%	512	494	49
Payment and Imaging		48	51	(6)%	149	152	(2)
Customer Services							
Professional and installation-related services		93	95	(2)%	326	320	2%
Customer Service Maintenance:							
Financial Self Service		154	141	9%	576	546	5%
Retail Store Automation		118	117	1%	462	467	(1)
Payment and Imaging		27	28	(4)%	108	107	19
Other		90	101	(11)%	361	409	(12)
Total Customer Services		482	482	_	1,833	1,849	(1)
Other		57	71	(20)%	196	242	(19)
Elimination of installation-related services included in both the Customer Services							` ` `
segment and the other reported segments		(86)	(89)	(3)%	(301)	(298)	19
4-1	ф <b>1</b>	700	<u> </u>	00/	<u></u>	<u></u>	70
otal revenue	<b>\$</b> 1	1,788	\$1,643	9%	\$5,984	\$5,598	79
perating Income (Loss) by segment							
Data Warehousing	\$	72	\$ 61		\$ 223	\$ 145	
Financial Self Service		88	77		222	165	
Retail Store Automation		18	14		26	_	
Systemedia		3	7		8	14	
Payment and Imaging		6	7		17	21	
Customer Services		5	6		(3)	27	
Other		(5)	(8)		(35)	(48)	
limination of installation-related services operating income included in both the Customer							
Services segment and the other reported segments		(25)	(25)		(90)	(89)	
ubtotal - Segment operating income	_	162	139		368	235	
% of Revenue		9.1%	8.5%		6.1%	4.2%	
Pension expense		(33)	(26)		(135)	(105)	
otal income from operations	\$	129	\$ 113		\$ 233	\$ 130	
******	_						
% of Revenue		7.2%	6.9%		3.9%	2.3%	



# NCR CORPORATION CONDENSED CONSOLIDATED BALANCE SHEETS (in millions)

	Dec	December 31 September 30 2004 2004		Dec	ember 31 2003	
<u>Assets</u>						
Current assets						
Cash, cash equivalents and short-term investments	\$	750	\$	625	\$	689
Accounts receivable, net		1,300		1,143		1,230
Inventories		355		392		308
Other current assets		236		215		195
Total current assets		2,641		2,375		2,422
Property, plant and equipment, net		670		697		746
Prepaid pension cost		1,446		1,368		1,386
Deferred income taxes		587		554		558
Other assets		433		416		368
Total assets	\$	5,777	\$	5,410	\$	5,480
	_		_		_	
<u>Liabilities and stockholders' equity</u>						
Current liabilities						
Short-term borrowings	\$	2	\$	4	\$	3
Accounts payable		492		419		414
Payroll and benefits		328		282		300
Customer deposits and deferred service revenue		407		375		362
Other current liabilities		505		514		500
Total current liabilities		1,734	_	1,594		1,579
Long-term debt		307		307		307
Pension and indemnity		517		490		484
Postretirement and postemployment benefits		244		260		272
Other long-term liabilities		895		843		963
Total liabilities		3,697		3,494		3,605
Total stockholders' equity		2,080		1,916		1,875
				1,510		1,075
Total liabilities and stockholders' equity	\$	5,777	\$	5,410	\$	5,480



# NCR CORPORATION CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS (in millions)

For the Periods Ended December 31

	F0F	For the Periods Ended December 31			
	Three M	Months	Twelve	Months	
	2004	2003	2004	2003	
Operating Activities					
Net income	\$ 124	\$ 80	\$ 285	\$ 58	
Adjustments to reconcile net income to cash provided by operating activities:					
Depreciation and amortization	71	77	275	315	
Deferred income taxes	(11)	(3)	(9)	9	
Income tax adjustment	<u> </u>	_	(85)	_	
Other adjustments to income, net	(19)	(2)	(19)	1	
Changes in assets and liabilities:	`	` ,	`		
Receivables	(157)	(78)	(66)	(26)	
Inventories	37	11	(46)	(45)	
Current payables	115	122	89	122	
Customer deposits and deferred service revenue	31	30	43	22	
Employee severance and pension	(24)	(19)	(3)	(7)	
Other assets and liabilities	28	(51)	(28)	(8)	
Net cash provided by operating activities	195	167	436	441	
Investing Activities					
Net expenditures for reworkable service parts	(27)	(29)	(92)	(96)	
Expenditures for property, plant and equipment	(22)	(21)	(77)	(63)	
Proceeds from sales of property, plant and equipment	60	1	68	7	
Additions to capitalized software	(22)	(20)	(85)	(70)	
Other investing activities	7	1	(36)	(3)	
Net cash used in investing activities	(4)	(68)	(222)	(225)	
Financing Activities					
Purchase of Company common stock	(157)	(16)	(428)	(90)	
Short-term borrowings, net	(2)	(8)	(1)	(2)	
Long-term debt, net		_		1	
Cash received from real estate transaction	(50)	_	_	_	
Proceeds from employee stock plans	124	20	260	35	
Other financing activities	_	1	_	(20)	
No. a color and the Community of the latest and the	(05)	(2)	(100)	(70)	
Net cash used in financing activities	(85)	(3)	(169)	(76)	
Effect of exchange rate changes on cash and cash equivalents	19	12	16	23	
Increase in cash and cash equivalents	125	108	61	163	
Cash and cash equivalents at beginning of period	625	581	689	526	
Cash and cash equivalents at end of period	\$ 750	\$ 689	<b>\$</b> 750	\$ 689	
Cuon una cuon equivalento at ena or perioa	φ /30 ————————————————————————————————————	ψ 003	ψ /30	ψ 003	