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PROCESSED

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NON-PUBLIC

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

FORM 13F-HR
FORM 13F COVER PAGE

Report for the Calendar Year or Quarter Ended: 06/30/04

Check here if Amendment [] ; Amendment Number: [] is a restatement.
[] adds new holdings entries.

Institutional Investment Manager Filing this Report:

Name: CIBC World Markets Corp
Address: 417 Fifth Avenue, Fourth Floor
New York, NY 10016

File Number: 028-06918

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, lists, and tables, are considered integral parts of this form.

Person signing this report on behalf of reporting Manager:

Name: Vince Saponar
Title: Executive Director
Phone: 212-667-6239

Signature, Place, and Date of Signing:

[Signature] NEW YORK, NY 08/09/04 [date]
[City, State]

Report Type (Check only one):

13F HOLDINGS REPORT. (Check here if all holdings of this reporting manager are reported in this report.)

13F NOTICE. (Check here if no holdings reported are in this report, and holdings are reported by other reporting manager(s).)

13F COMBINATION REPORT. (Check here if a portion of the holdings for this reporting manager are reported in this report and a portion are reported by other reporting manager(s).)

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Number of Other Managers Reporting for this Manager: NONE

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FORM 13F SUMMARY PAGE

Report Summary:

Number of Other Included Managers: 0

Item 13F Information Table Entry Total: 78

Item 13F Information Table Value Total: \$ 162,473
(thousands)

Number of Other Included Managers: NONE

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PAGE: 1 FORM 13F NAME OF REPORTING MANAGER: CIBC WORLD MARKETS CORP. DATE JUN04 (ITEM 1) (ITEM 2) (ITEM 3) (ITEM 4) (ITEM 5) (ITEM 6) (ITEM 7) (ITEM 8) VOTING AUTHORITY

NAME OF ISSUES	TITLE OF CLASS	CUSIP NO	FAIR MARKET VALUE	SHARES OR PRINCIPAL AMOUNT	SHARES			MGR	SOLE (A)	SHARED (B)	NONE (C)
					SOLE (A)	SHARED DEFINED (B)	SHARED OTHER (C)				
FLEXTRONICS INTL LTD	ORD	Y2573F102	2,792,845	175,100	175,100				175,100		
ADVANCED ENERGY INDS	NOTE	007973AC4	6,583,005	6,534,000	6,534,000				6534,000		
AGILYSYS INC	COM	008473105	903,465	65,516	65,516				65,516		
AMAZON COM INC	NOTE	023135AF3	4,003,430	4,008,000	4,008,000				4008,000		
AMERICAN GREETINGS CORP	NOTE	026375AJ4	2,198,360	1,225,000	1,225,000				1225,000		
AMERISOURCE HEALTH CORP	NOTE	03071PAD4	9,345,041	7,878,000	7,878,000				7878,000		
AMKOR TECHNOLOGY INC	NOTE	031652AN0	357,700	365,000	365,000				365,000		
ANIXTER INTL INC	COM	035290105	20,412	600	600				600		
ARRIS GROUP INC	NOTE	042690AB6	1,978,742	1,421,000	1,421,000				1421,000		
AVAYA INC	NOTE	053499AA7	4,634,865	7,299,000	7,299,000				7299,000		
AXCELIS TECHNOLOGIES INC	NOTE	054540AB5	2,766,619	2,790,000	2,790,000				2790,000		
BROCADE COMMUNICATIONS SYS I	NOTE	111621AB4	2,072,287	2,271,000	2,271,000				2271,000		
BUNGE LTD FIN CORP	NOTE	120568AE0	153,982	114,000	114,000				114,000		
COMMSCOPE INC	COM	203372107	515,740	24,100	24,100				24,100		
COMMUNITY HEALTH SYS INC NEW	NOTE	203668AA6	2,045,701	1,951,000	1,951,000				1951,000		
COMPUTER NETWORK TECHNOLOGY	NOTE	204925AC5	2,296,861	2,650,000	2,650,000				2650,000		
CUBIST PHARMACEUTICALS INC	NOTE	229678AB3	4,406,005	4,750,000	4,750,000				4750,000		
CYMER INC	NOTE	232572AE7	2,975,421	2,942,000	2,942,000				2942,000		
CYPRESS SEMICONDUCTOR CORP	NOTE	232806AH2	882,206	764,000	764,000				764,000		
ELECTRO SCIENTIFIC INDS	NOTE	285229AC4	10,223,600	10,000,000	10,000,000				10000,000		
ELECTRONIC DATA SYS NEW	NOTE	285661AF1	759,201	791,000	791,000				791,000		
EVERGREEN RES INC	NOTE	299900AB6	216,788	130,000	130,000				130,000		
FEI CO	NOTE	30241LAB5	6,150,513	6,020,000	6,020,000				6020,000		
FLIR SYS INC	NOTE	302445AB7	293,502	205,000	205,000				205,000		
FAIR ISAAC CORP	NOTE	303250AB0	5,749,588	5,631,000	5,631,000				5631,000		
FAIRCHILD SEMICONDUCTOR INTL	COM	303726103	124,032	7,600	7,600				7,600		
FAIRCHILD SEMICONDUCTOR CORP	NOTE	303727AJ0	1,666,625	1,675,000	1,675,000				1675,000		
FINISAR	NOTE	31787AAC5	75,460	77,000	77,000				77,000		
FINISAR	NOTE	31787AAF8	1,513,710	1,650,000	1,650,000				1650,000		
FISHER SCIENTIFIC INTL INC	NOTE	338032AX3	488,727	468,000	468,000				468,000		
FISHER SCIENTIFIC INTL INC	COM NE	338032204	704,428	12,200	12,200				12,200		
FORD MTR CO DEL	COM PA	345370860	586,875	37,500	37,500				37,500		
FREEMPORT-MCMORAN COPPER & GO	NOTE	35671DAK1	185,203	125,000	125,000				125,000		
GILEAD SCIENCES INC	NOTE	375558AD5	151,214	100,000	100,000				100,000		
GLOBESPAN INC	NOTE	379571AB8	1,295,125	1,300,000	1,300,000				1300,000		
HNC SOFTWARE INC	NOTE	40425PAC1	5,952,000	5,655,000	5,655,000				5655,000		
HEALTH MGMT ASSOC INC NEW	NOTE	421933AD4	41,500	46,000	46,000				46,000		
HEALTH MGMT ASSOC INC NEW	NOTE	421933AF9	76,452	73,000	73,000				73,000		
HUMAN GENOME SCIENCES INC	NOTE	444903AF5	4,850	5,000	5,000				5,000		
HUMAN GENOME SCIENCES INC	NOTE	444903AH1	3,861,178	4,130,000	4,130,000				4130,000		
HUTCHINSON TECHNOLOGY INC	NOTE	448407AE6	1,021,662	970,000	970,000				970,000		
ICN PHARMACEUTICALS INC NEW	NOTE	448924AM2	3,120,000	3,000,000	3,000,000				3000,000		
INCYTE CORP	NOTE	45337CAC6	884,103	883,000	883,000				883,000		
INHALE THERAPEUTIC SYS INC	NOTE	457191AH7	678,909	720,000	720,000				720,000		
INTERNATIONAL RECTIFIER CORP	NOTE	460254AE5	5,294,825	5,396,000	5,396,000				5396,000		
INTERNATIONAL RECTIFIER CORP	COM	460254105	63,617	1,540	1,540				1,540		
INVTITROGEN CORP	NOTE	46185RAD2	4,302,235	4,068,000	4,068,000				4068,000		
INVTITROGEN CORP	NOTE	46185RAF7	465,188	365,000	365,000				365,000		
IVAX CORP	NOTE	465823AG7	2,335,825	2,330,000	2,330,000				2330,000		

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NAME OF ISSUES	PAGE: 2	FORM 13F	(ITEM 1)	NAME OF REPORTING MANAGER: CIBC WORLD MARKETS CORP.	PAGE TOTAL	NOTE	CUSIP NO	FAIR MARKET VALUE	SHARES OR PRINCIPAL AMOUNT	INVESTMENT DISCRETION				DATE JUN04	VOTING AUTHORITY	1109,000 6799,000
										SOLE (A)	SHARED DEFINED (B)	SHARED OTHER (C)	MGR			
SI LOGIC CORP						NOTE	501242AJ0	1,125,635	1,109,000	552,000	552,000					552,000
SI LOGIC CORP						NOTE	502161AG7	6,663,020	6,799,000	3,370,000	3,370,000					3370,000
LIBERTY MEDIA CORP						DEB	530715AG6	35,750	50,000	50,000	50,000					50,000
IFEPPOINT HOSPITALS INC						NOTE	532191AE9	411,956	400,000	400,000	400,000					400,000
INCARE HLDGS INC						DBC	532791AB6	5,008,400	5,000,000	5,000,000	5,000,000					5000,000
ANOR CARE INC NEW						COM	564055101	169,988	5,200	5,200	5,200					5,200
VERICK TUBE CORP						NOTE	577914AA2	2,421,860	2,000,000	2,000,000	2,000,000					2000,000
AIR GROUP INC						NOTE	590479AB7	2,473,810	1,000,000	1,000,000	1,000,000					1000,000
TECHRON TECHNOLOGY INC						COM	595112103	520,200	34,000	34,000	34,000					34,000
TEL NETWORKS CORP NEW						NOTE	656568AB8	1,076,343	1,125,000	1,125,000	1,125,000					1125,000
TEK HLDGS INC						COM	69366M104	182,508	15,829	15,829	15,829					15,829
RIDE INTL INC DEL						FRNT	74153QAB8	515,759	444,000	444,000	444,000					444,000
ROTEIN DESIGN LABS INC						NOTE	74369LAD5	5,004,892	4,225,000	4,225,000	4,225,000					4225,000
PPM INTL INC						NOTE	749685AK9	2,895,915	5,652,000	5,652,000	5,652,000					5652,000
OGERS COMMUNICATIONS INC						DBC	775109AE1	1,705,500	1,800,000	1,800,000	1,800,000					1800,000
OPER INC NEW						NOTE	776696AA4	5,192,463	11,695,000	11,695,000	11,695,000					11695,000
CI SYS INC						NOTE	783890AF3	2,775,000	3,000,000	3,000,000	3,000,000					3000,000
COTTISH ANNUITY & LIFE HLDG						NOTE	81013RAC9	841,704	675,000	675,000	675,000					675,000
ERENA SOFTWARE INC						COM	817492101	124,810	6,538	6,538	6,538					6,538
ONIC AUTOMOTIVE INC						CL A	83545G102	2,211	100	100	100					100
OVEREIGN BANCORP INC						COM	845905108	221,897	10,100	10,100	10,100					10,100
ERADYNE INC						SDCV	880770AD4	527,695	500,000	500,000	500,000					500,000
RIQUINT SEMICONDUCTOR INC						NOTE	89674KAB9	2,756,921	2,882,000	2,882,000	2,882,000					2882,000
UNIVERSAL HLTH SVCS INC						DBC	913903AL4	313,596	522,000	522,000	522,000					522,000
EECO INSTRS INC DEL						NOTE	922417AB6	2,331,957	2,328,000	2,328,000	2,328,000					2328,000
TERTEX PHARMACEUTICALS INC						NOTE	92532FAD2	390,195	414,000	414,000	414,000					414,000
ISHAY INTERTECHNOLOGY INC						NOTE	928298AD0	5,699,474	9,455,000	9,455,000	9,455,000					9455,000
PAGE TOTAL								45,464,866								
GRAND TOTAL								162,473,143								

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