RAMBUS INC Form SC 13G/A July 22, 2004

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

# **SCHEDULE 13G**

OMB APPROVAL OMB Number: 3235-0145 Expires: December 31, 2005 Estimated average burden hours per response. . 11

Under the Securities Exchange Act of 1934 (Amendment No. 1)\*

## RAMBUS INC.

(Name of Issuer)

#### Common

(Title of Class of Securities)

#### 750917106

(CUSIP Number)

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- o Rule 13d-1(b)
- o Rule 13d-1(c)
- o Rule 13d-1(d)

\*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

#### CUSIP No. 750917106

1.	Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only) PRIMECAP Management Company 95-3868081				
2.	Check the Appropriate Box if a Member of a Group (See Instructions)				
	(a)	0			
	(b)	0			

- 3. SEC Use Only
- Citizenship or Place of Organization
   225 South Lake Avenue # 400, Pasadena, CA 91101

5. Sole Voting Power 1,283,557 Number of 6. Shared Voting Power Shares Beneficially Owned by 7. Sole Dispositive Power Each Reporting 9,313,257 Person With 8. Shared Dispositive Power

- 9. Aggregate Amount Beneficially Owned by Each Reporting Person 9,313,257
- 10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o
- 11. Percent of Class Represented by Amount in Row (9) 9.11%
- 12. Type of Reporting Person (See Instructions)

Item 1.					
	(a)	Name of Issuer			
	(b)	Address of Issuer's Principal Executive Offices			
T4 2					
Item 2.	(a)	Name of Person Filing			
	(b)	Address of Principal Business Office or, if none, Residence			
	(c)	Citizenship			
	(d)	Title of Class of Securities			
	(e)	CUSIP Number			
Item 3.	If this statement is f	t is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:			
	(a)	0	Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o).		
	(b)	o	Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).		
	(c)	0	Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).		
	(d)	0	Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8).		
	(e)	0	An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);		
	(f)	0	An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);		
	(g)	o	A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);		
	(h)	0	A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);		
	(i)	0	A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);		
	(j)	0	Group, in accordance with §240.13d-1(b)(1)(ii)(J).		

Item 4.	Ownership	4 1 1	call control of the call to the		
Provide the follow	(a)	g the aggregate number and percentage of the class of securities of the issuer identified in Item 1.  Amount beneficially owned:			
	(b)	Percent of class:			
	(c)	Number of shares as to which the person has:			
		(i)	Sole power to vote or to direct the vote		
		(ii)	Shared power to vote or to direct the vote		
		(iii)	Sole power to dispose or to direct the disposition of		
		(iv)	Shared power to dispose or to direct the disposition of		
			the reporting person has ceased to be the beneficial owner of more than		
Item 6.	Ownership of More than Five Percent on Behalf of Another Person				
Item 7.	Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person				
Item 8.	Identification and Classification of Members of the Group				
Item 9.	Notice of Dissolution of Group				
Item 10.	Certification				
		4	4		

#### Signature

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

July 16, 2004 Date

/s/ Theo A. Kolokotrones Signature

Theo A. Kolokotrones, President Name/Title

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Signature 6