#### UNITED STATES OF AMERICA

#### BEFORE THE FEDERAL TRADE COMMISSION

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In the Matter of

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RAMBUS INC.,

Docket No. 9302

MEMORANDUM BY RAMBUS INC. IN RESPONSE TO MOTION BY DEPARTMENT OF JUSTICE TO LIMIT DISCOVERY RELATING TO THE DRAM GRAND JURY

#### I. INTRODUCTION AND SUMMARY OF ARGUMENT

Respondent Rambus Inc. ("Rambus") submits this memorandum in response to the motion by the Department of Justice ("DOJ") to prevent discovery by Rambus into issues relating to price-fixing by DRAM manufacturers. The DOJ contends that Rambus's discovery will interfere with an ongoing criminal investigation by the DOJ and a federal grand jury.

The DOJ's motion should be denied. It is well settled that a "stay of civil discovery, pending the outcome of related criminal matters, is an extraordinary remedy" that is appropriate only in "extraordinary circumstances." Weil v. Markowitz, 829 F.2d 166, 174 n.17 (D.C. Cir. 1987). It is also settled that the DOJ bears a "heavy burden" on

criminal proceeding "falls far short" of meeting the DOJ's burden. Horn v. District of

The "extraordinary remedy" sought by the DOJ is not appropriate here. While Rambus cannot comment on the nature scope or likely duration of the DOI's criminal investigation, it does know that the order sought by the DOJ will substantially impair Rambus's ability to respond to Complaint Counsel's allegations at the hearing in this matter. As set forth in detail in section IIIA, below, Rambus has already located evidence showing concerted action by DRAM manufacturers that was intended to remove Rambus and its technology as a threat to the manufacturers' ability to control the pricing of their principal products. The relief requested by the DOJ would bar Rambus from continuing

to develop this evidence, which is highly relevant both to liability and to the remedy issues that may be addressed at the hearing in this matter.

Rambus has no desire to interfere with an ongoing criminal investigation. Rambus would, therefore, agree not to ask any deposition witness about any communications with the DOJ or the grand jury, and it would agree not to seek the production of correspondence between DRAM manufacturers and the DOJ or the grand jury. This

Agricement will relieve the DOP's "greatest concern" according to the DOP's motion See

#### A. Complaint Counsel's Allegations And Rambus's Responses

The Complaint in this matter asserts that Rambus has monopolized or attempted to monopolize certain markets for technology related to dynamic random access memory

body called "JEDEC," and that it violated certain purported JEDEC rules that were "commonly known" to JEDEC members when it allegedly failed to disclose that it had filed\_or might in the future file\_natent applications that "might be involved in" IEDEC's\_

standard-setting work. Complaint, III 21, 24, 47-33, 70-00. The Complaint also aneges

<sup>&</sup>lt;sup>1</sup> If the Court were to order the relief sought by the DOJ, it should stay all depositions pursuant to Rule 3.51(a) and continue the hearing in this matter, for the reasons discussed in section IIIB, below.

	that several years after Ramous left JEDEC, it obtained patents that read on products that	
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	possibility that Rambus might obtain patents on technologies and features that were being	
	incorporated in the JEDEC standards. $Id.$ , $\P$ 2. The Complaint further states that if	
<b>\</b>	many had been arrows of this accombility there was labored and alternative	
1	technologies into the relevant standards. Id., ¶¶ 62, 65, 69. Finally, the Complaint	
	alleges that as a result of Rambus's "scheme." DRAM manufacturers are now locked into	
- •	selling JEDEC-compliant DRAM products and have no choice but to pay "excessive"	
•	royalties to Rambus. Id., ¶ 93.	
	None of these allegations is true. To begin with, there is now overwhelming	
	evidence that JEDEC merely encouraged, and did not require, the disclosure of patent	
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	various features that were under consideration by JEDEC. There is also substantial	

art that would, in the opinion of those members, render Rambus's patents invalid.2

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	manufacturers to have incorporated certain features into memory devices if they
	suspected that they might eventually have to nay Rambus royalties on those devices
7.9-7	
	equally performing, alternatives to many of the features in question, so that the
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<b>.</b>	<del></del>

relevant intellectual property rights covering various features of the manufacturers' memory devices. It made perfect sense because the *alternative* – the *de facto* industry acceptance of Rambus-designed memory devices as the dominant memory product – was both unacceptable and a very real possibility in the 1996-1999 time frame. Had that occurred, the DRAM manufacturers would have been forced by their customers to build and sell Rambus-designed DRAMs, not the DRAMs that had been developed and

Exhibit C, cited in this footnote, was designated as confidential information by a third party pursuant to the Protective Order in this case, a copy of which is attached as exhibit U to the Perry Declaration. In addition, exhibits B, D, F, I, J, L-N and P-T, and the

exhibits E, G, H and K were also so designated, further review proved that not to be the case.

designed by the manufacturers. The manufacturers would thus have lost control over the future development path and, more importantly, the pricing, of their core products.

	The evidence collected to date on these issues is described in more detail below.
	What that evidence shows is that in the face of the threat presented by Rambus, especially
	After Intel colored Dambus in 1006 as its shains for "mart consection marrows
	technology, some or all of the DKAINI manufacturers joined together in a concerted
	Short to recursion on Total and athem assuched and of managery desired thete. (1) Denotes -
	DRAMs would be too difficult to build and therefore too expensive to buy; and (2) there
•	were alternatives available that were cheaper and offered equal performance. In order to
	de grande de de distinct de sinte de a DD AM anone for the year of 12 th and 1
	demonstrate their second point, the DRAM manufacturers borrowed features from
	Ale since the one case ded and Demburge DD AMe we lawred maned a substantial assumptition.

Rambus recognizes that Complaint Counsel is likely to say that Rambus is simply trying to deflect attention from its own alleged misdeeds. Rambus also acknowledges that allegations of collusive conduct are more easily made than proven. That is why

that it is not just "blowing smoke" and to show that the DOJ's request for a ban on pricefixing discovery would have a real and serious impact on Rambus's ability to prevail in this matter. Rambus will begin by providing some background information regarding the DRAM industry in the mid and late 1990's.

#### B. The DRAM Industry In The 1990's

R. Preston McAfee, who was retained by Complaint Counsel. Dr. McAfee's report and appendix nontain what he calls on "historical appendix based archivies" of DRAM

Rambus attended its last JEDEC meeting in December 1995. At that time, as Dr. McAfee points out, the DRAM industry was still manufacturing primarily "asynchronous" memory devices. McAfee Appendix, p. 107 (referring to the "general industry cross-over from asynchronous DRAM to SDRAM" that occurred in "mid-

microprocessors, and it publicly announced that it had selected Rambus as its "next generation" memory technology. McAfee Report, p. 86. This meant that DRAM

Because of the report's length (over 400 pages), Rambus has not submitted it to Your Honor in its entirety. The excerpts cited herein are included as exhibit A to the Perry Pachardian Bambus does not by siting to the report calculates that the report is in

synchronous DRAMs, or "SDRAMs," is that in the latter, memory functions are linked to a "system clock," which allows the device to operate more quickly. Complaint, ¶ 12.

manufacturers – whose ultimate principal customer was Intel – would have to manufacture Rambus-designed DRAMs. McAfee Appendix, p. 44.

This announcement had a "profound" impact on Rambus and on DRAM manufacturers. *Id.*, pp. 44-48. As Dr. McAfee points out, "the single fact of Intel

patronage in 1997 all but crowned Rambus as the victor in the DRAM wars from the perspective of many mousely analysis and observers in the trade press, and even the most vocal proponents of competing memory architectures conceded publicly that RDRAM would be the dominant form of PC main memory going into the next decade." *Id.*, p. 48. The announcement also "prompted a backlash as well, however, as OEMs and DRAM

McAfee Report, p. 87.

Today, six years after Intel's selection of Rambus DRAMs as the "next

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high. Id., pp. 134-165.

As these excerpts from the report by Complaint Counsel's economics expert demonstrate, Complaint Counsel intend to explain at the hearing that Rambus attempted

to compete in the marketplace for DRAM technologies, and that the Rambus DRAM was selected by Intel in 1996 as the next generation memory device, thus making it likely to

jointly developed by the manufacturers. Finally, Complaint Counsel will tell Your Honor that Intel ultimately "abandoned" Rambus and threw its support to the manufacturers' chip designs, and that Rambus then and only then revealed its IP claims over features and technologies included within the SDRAM and DDR SDRAM devices.

One of Complaint Counsel's underlying assumptions is that the DR AM

consistent with the evidence. The alternative explanation is that the DRAM

covering their devices, because the manufacturers simply could not accept a loss of control over future DRAM development. The DRAM manufacturers could not accept that loss of control because it necessarily entailed a loss of control over the *pricing* of the DRAM devices that the manufacturers would be building. This risk was considered such

SDRAM or DDR SDRAM, nor the prohibitions contained in the antitrust laws, stood in

the manufacturers' way as they sought to block customer acceptance of Rambus's DRAMs. The evidence on this issue is described in section III, below.

#### III. ARGUMENT

### A. The Discovery That The DOJ's Motion Seeks To Restrict Is Highly Relevant To The Liability And Remedy Issues In This Case.

As Complaint Counsel's expert, Dr. McAfee, has explained, the "fundamental" reason why "DDR was seen as succeeding where RDRAM failed" was that DDR, *unlike* the Rambus DRAM, gained "sufficient acceptance in the mainstream platform to achieve a sort of critical mass in production, which in turn worked to bring down fabrication costs

the SDRAMs and DDR SDRAMs that the manufacturers were promoting as alternatives

#### manufacturers:

"Intel... required that commercial quantities of RDRAM and RDRAM-compatible system elements be widely available by its targeted introduction dates, which meant that much of Rambus's

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successfully implementing cost-effective fabrication of the products in sufficient volume to meet demand."

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Rambus technology").

In short as Complaint Counsel's own export states the failure by the DDAM

commercially." *Id.*, p. 145. Dr. McAfee appears to attribute the manufacturing shortfalls — and the resulting price premium that caused the Rambus RDRAM to "fail" — to technical difficulties that kept production low and prices high. *Id.*, pp. 134-165. He *hints*, however, at the possibility that concerted action was involved. For example, he points to trade press reports in the spring of 1999 that "[c]hip companies, from NEC to Toshiba, said they will refrain from building a large amount of [Rambus DRAM]

financial and staffing resources "that could have been spent on bringing the cost of Rambus memory down" to the development of *other* memory technologies. *Id.*, pp. 133-4. And in a footnote, he suggests that what he calls "political influences" might have delayed the widespread introduction of Rambus DRAMs, citing to a press report that "argued that Micron might stonewall the [Rambus] architecture to favor instead the lower-cost, presumably higher-profit SDRAM." *Id.*, p. 160 n.804.

A decision by an individual manufacturer to "stonewall" Rambus DRAM

development by keeping production low and prices high is not, of course, itself a violation of the antitrust laws. But if the failure of DRAM manufacturers to "ramp up"

that it has obtained to date. The evidence set out below is sufficient to demonstrate that

(1) On November 27, 1996, a few weeks after Intel announced that it had chosen Rambus's DRAMs as the next generation memory device,

[REDACTED].

(2) The minutes of a December 3, 1996 meeting of a membership-restricted

Intel, having control of market. We can't resist such a possibility individually. We need some united strategy." Id., ex. E (emphasis added).

- (3) [REDACTED]
- (4) The following month, at a meeting of the SyncLink Consortium, a manufacturer representative acknowledged that "Intel won't change course unless Rambus fails." *Id.*, ex. H.
- (5) [REDACTED]
- (6) [REDACTED]

(7) Among the messages delivered by Mr. McComas to DRAM manufacturers at the April 1998 seminar was a prediction that Intel was likely to try to force manufacturers to bear whatever higher costs might be involved in Rambus DRAM production, so that the Rambus DRAM is a "guaranteed bad bet for margin enhancement." *Id.*, ex. K. Possible strategies to avoid

production low: "tape out but do not fully productize or cost reduce"

Rambus DRAMs Id (emphasis added)

(8) After McComas' presentation, a Texas Instruments employee, Roberto

Cartelli, invited McComas to address a meeting of senior executives of the

various DRAM manufacturers in June 1998. [REDACTED]

(9)	At the Julie 1996 incenting of DRAW manufacturer executives, McComas	
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phase of Direct Rambus, DRAM vendors will need a constant flow of information to help make wise decisions and to walk the fine line between a pleasant shortage and a disastrous oversupply" of Rambus DRAMs. Id. (emphasis added). [See also Tabrizi, p. 180]. [REDACTED]

(10) The Hynix executive who received McComas' e-mail conceded in his deposition that an "oversupply" of Rambus DRAMs would have been "disastrous" because the price would have gone "way down." *Id.*, ex. O.

incorporated Rambus DRAMs unless the price of Rambus DRAMs did come "way down," or at least came "very close to the industry standard." Id.

(11) In April 1999, an article appeared in the trade press describing the efforts of

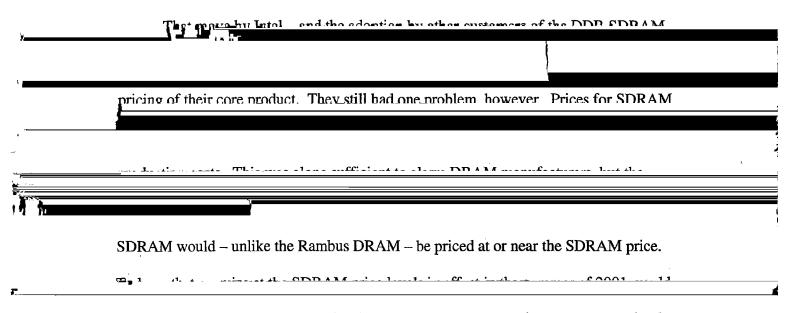
of Dambon DDAM . The artists of the described bearings of the Com

thought that it could meet the industry's entire demand in 1999. Id., ex. P.

[REDACTED]

(12) [REDACTED]

This brings us to the year 2000, when the refusal of DRAM manufacturers to provide a "volume supply" of Rambus DRAMs sufficient "to drive down the price premium" between Rambus DRAMs and SDRAMs finally caused Intel's support for Rambus to "cvaporate." McAfee Appendix, pp. 135, 176. In September and October of 2000, Intel announced that it was largely phasing out its product plans involving Rambus DRAMs and intended instead to introduce products incorporating DDR SDRAMs. *Id.*, p. 176.



mean huge losses. As one September 24, 2001 press report noted, "many companies fear

that the price of DDR SDRAM may follow the path of SDRAM and drop below its production cost in the future." Perry Decl., ex. R.

technology, the manufacturers were free to increase prices on their SDRAM and DDR SDRAM devices, and they did just that. [REDACTED] The evidence strongly suggests that these price increases were the product of concerted action. While Rambus's discovery in this area has been seriously hampered by the DOJ's motion,<sup>5</sup> Rambus has learned that [REDACTED]. *Id.*, ex. T (emphasis added).

<sup>&</sup>lt;sup>5</sup> Mr. Appleton's deposition was unilaterally cancelled by Micron when the DOJ filed its motion for a temporary stay, and several other depositions were postponed as a result of

In sum, there is substantial evidence of concerted action by DRAM manufacturers to affect DRAM production and prices over an extended period of time. When Rambus was a competitive threat to the manufacturers' domination of "main memory" products, the concerted action was targeted at Rambus. When Rambus was removed as a threat,

	the concerted action was targeted at Rambus. When Rambus was removed as a threat,	
<b>A.</b>	#	
•	This evidence is relevant and important to many issues in this case:	
Te IÇ	(1) the evidence demonstrates that the DRAM rovalties that Rambus has	
	charged since 2000 in connection with its newly issued patents have <i>not</i> –	

or the prices of products incorporating DRAMs, to rise;

(2) the eyidence also demonstrates that the purported "victims" of Rambus's

contrary to Complaint Counsel's earlier allegations - caused DRAM prices,

violations of the antitrust laws:

that JEDEC standardization drives memory technology choices or operates to "lock in" those choices. The evidence shows that it was Intel's influence not IEDEC's designers that drives these technology choices.

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advantages. Intel then chose DDR SDRAM over Rambus technology not because the former had been through the JEDEC standard process (it had), but because the market price of devices incorporating Rambus technology had been artificially inflated by the concerted action of manufacturers anxious to retain control over product development and pricing;

SDRAM was adopted by DRAM manufacturers because they were "lulled"

rights over that technology. The evidence shows instead that the DRAM manufacturers were willing to take that risk because the alternative (the widespread acceptance and use, driven by Intel, of Rambus-designed memory devices) was unacceptable; and

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involvement in or knowledge of unlawful concerted action. If these witnesses are willing to ignore the antitrust laws to assist their employer in an effort to eliminate Rambus as a competitive threat, their testimony in this proceeding about such issues as their recollection of oral presentations about patent policy at JEDEC meetings, or their own awareness of

Parties are in the interpretability and the property and the Parties of the Parti

Complaint Counsel, which are supposedly intended to restore competition to a DRAM technology market impaired by anti-competitive conduct. The Complaint in essence seeks to strip Rambus of its valid<sup>6</sup> patent rights because of its alleged failure to disclose

to JEDEC its intention to obtain those patent rights. The Complaint argues that had Rambus disclosed those intentions, the industry would not have adopted the DDR SDRAM technology. But if it is true, as Dr. McAfee himself states, that the DRAM manufacturers' "failure to ramp up capacity had the potential to devastate Rambus commercially," McAfee Report, p. 145, and if it is true that that "failure to ramp up" was

a *competitive* marketplace is a world of Rambus DRAMs. *Any* remedy that would ever be recommended by Your Honor or imposed by the Commission must surely take that fact into account, for any other result would do nothing to rid the DRAM technology market of the impact of the DRAM manufacturers' price-fixing activities, and would instead represent an extraordinary windfall to them.

In short, the DOJ's motion should be denied because the relief it seeks threatens

Complaint Counsel concede for purposes of this matter that Rambus's patents are valid and that Rambus's founders did in fact invent revolutionary new approaches to improving the performance of memory devices.

# B. If Your Honor Grants The DOJ's Motion, You Should Also Stay All Depositions And Continue The Hearing Date.

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	"extraordinary remedy" it seeks. Weil, 829 F.2d at 1/4 n.1/. Kambus acknowledges,
	however, that it has not reviewed (and cannot review) the declaration and evidence
	nowever, that it has not reviewed (and cannot review) the declaration and evidence
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	Your Honor also to stay all deposition discovery and to continue the hearing date in this
	gono_If the DOI's interest in processing the price fiving estimation denorihed chere is
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	deemed so important that Rambus's discovery into these activities is to be postponed, that
	council mean that Dambug is required to defend itself at the bearing in this matter with an
	cannot mean that Rambus is required to defend itself at the hearing in this matter without
	That would mean that the DD AM manufacturers who are the
	from their own apparently unlawful conduct.
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	autivities described in this brief. Very Honor should story all demositions, and continue the
	activities described in this brief, Your Honor should stay all depositions, and continue the
	hearing, for a sufficient time to allow the DOJ to question Mr. Appleton and the other
	gadini danila ili mirati di Illea ka kakamirami

## C. <u>A Postponement Of The Discovery Cut-Off And Hearing Date Is</u> <u>Appropriate Even If Your Honor Denies The DOJ Motion, Because</u>

#### Occurred.

the DOJ's motion for a temporary stay and Your Honor's order granting it, four depositions were continued, a substantial document production (by Infineon) was unilaterally postponed by Infineon less than 24 hours before it was to commence, and other third parties delayed their document productions as well. Perry Decl., ¶ 22. These delays have caused serious disruption to an already overloaded January schedule, and it has become clear that a continuance of the discovery period is necessary, even if the DOJ's pending motion is denied.

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### UNITED STATES OF AMERICA BEFORE THE FEDERAL TRADE COMMISSION

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RAMBUS INCORPORATED, a corporation.	)	Docket No. 9302
	)	

#### CERTIFICATE OF SERVICE

L Jacqueline M. Haberer, hereby certify that on January 7, 2003. I caused a true and

Department of Justice to Limit Discovery Relating to the DRAM Grand Jury to be served by facsimile at 415-436-6687 and overnight delivery to Niall E. Lynch at the United States Department of Justice, Antitrust Division. 450 Golden Gate Avenue. Room 10-0101. San

Hon James P Timony	M Sean Rovali
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