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FEDERAL TRADE COMMISSION
I N D E (PUBLIC RECORD)

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| WITNESS: | DIRECT | CROSS | REDIRECT | RECROSS |
| S. [REDACTED] | 4133 | 4187 | | |
| E HIBITS | | FOR ID | IN EVID | WITHDRAWN |
| C | | | | |
| N [REDACTED] | | | | |
| R | | | | |
| N [REDACTED] | | | | |
| J | | | | |
| N [REDACTED] | | | | |
| D | | | | |
| S. [REDACTED] | | | | |

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UNITED STATES OF AMERICA
FEDERAL TRADE COMMISSION

I n v e n t o r y :)
R e c o r d , I n t e r v e n t o r y D e c i s i o n N o . 9302
-----)

W e d n e s d a y , J u n e 4 , 2003

9:30 a.m.

TRIAL VOLUME 22
PART 1
PUBLIC RECORD

BEFORE THE HONORABLE STEPHEN J. MCGUIRE

C h a r l e s A . L . J .
F e d e r a l T r a d e C o m m i s s i o n
600 P e n n . A v e . N . W .
W a s h i n g t o n , D . C .

R e c o r d : S e c r e t a r y , R M R

F e d e r a l T r a d e C o m m i s s i o n
W a s h i n g t o n , M . D .
(301) 870-8025

1 APPEARANCES:

2

3 ON BEHALF OF THE FEDERAL TRADE COMMISSION:

4 M. SEAN RQ ALL, A . . .

5 GEOFFRE OLIVER, A . . .

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7 CAR UK, A . . .

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9 601 N. . . J. . . A . . . N.W.

10 W . . . , D.C. 20580-0000

11 (202) 326-3663

12

13

14 ON BEHALF OF THE RESPONDENT:

15 GREGOR P. STONE, A . . .

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17 PETER A. DETRE, A . . .

18 SEAN GATES, A . . .

19 ANDREA WEISS JEFFRIES, A . . .

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21 355 S . . G . . A . . . 35 . . F . .

22 L A . . . , C . . . 90071-1560

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W . . , M . .

(301) 870-8025

1 APPEARANCES:

2

3 ON BEHALF OF THE RESPONDENT:

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 5 W [REDACTED], C [REDACTED] & B [REDACTED]
 6 2445 M S [REDACTED], N.W.
 7 W [REDACTED], D.C. 20037-1420
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10

11

12 ON BEHALF OF THE WITNESS:

13 JARED BOBROW, A
 14 W [REDACTED], G [REDACTED] & M [REDACTED], LLP
 15 201 R [REDACTED] S [REDACTED] P [REDACTED]
 16 R [REDACTED] S [REDACTED], C [REDACTED] 94065
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F [REDACTED] T [REDACTED] R [REDACTED] I [REDACTED].
 W [REDACTED], M [REDACTED]
 (301) 870-8025

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JUDGE MCGUIRE: T

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Mr. R

MR. RQ ALL: G H

JUDGE MCGUIRE: G

MR. RQ ALL: A I R

W

H I

JUDGE MCGUIRE: G

MR. RQ ALL: F

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1006, F R

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JUDGE MCGUIRE: O , M. R

A M. S

MR. STONE: H

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24 JUDGE MCGUIRE: H

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1 MR. STONE: T.
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7 JUDGE MCGUIRE: I
 8 M. R
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11 MR. RQ ALL: W.
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 16 R
 17 M
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19 JUDGE MCGUIRE: W.
 20 I
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23 S ML 2 2 RQ ALL: W.

1 MR. STONE: H I

2 -- I

3 JUDGE MCGUIRE: N I

4 MR. STONE: --

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6 JUDGE MCGUIRE: O

7 FTC

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11 MR. ROY ALL: W

12 FTC

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JUDGE MCGUIRE: R . .

MR. RQ ALL: B

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JUDGE MCGUIRE: D

M. S

MR. STONE: I M. R

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17 JUDGE MCGUIRE: O M. R
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19 W.
20 MR. RQ ALL: W I
21 I M
22 I I H
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25 JUDGE MCGUIRE: T.

1 MR. RQ ALL: --
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3 JUDGE MCGUIRE: T.
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13 D. O.
14 S -- I
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16 MR. RQ ALL: C I ?
17 A I
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5 JUDGE MCGUIRE: B
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7 MR. RQ ALL: H H
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9 JUDGE MCGUIRE: S ,
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 21 I

22 MR. RQ ALL: W I
 23 M . S

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11 JUDGE MCGUIRE: M... S...
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 1 9 C... I...
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 2211 JUDGE MCGUIRE: R...

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1 MR. RQ ALL: O . . . H . . . I
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 4 S . . .
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6 JUDGE MCGUIRE: G . . . L . . .
 7 . . .
 8 (A . . .)

9 JUDGE MCGUIRE: O . . .
 10 . . .
 11 T . . . A . . .

12 . . .
 13 MR. RQ ALL: T . . . H . . .
 14 T . . . M . . .
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21 JUDGE MCGUIRE: R . . .
 22 MR. RQ ALL: W . . . I . . . M . . . S . . .
 23 . . .
 24 . . . R . . .
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1 ? I M. S

2 JUDGE MCGUIRE: M. S

3 MR. STONE: I

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9 JUDGE MCGUIRE: A

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11 MR. STONE: I

12 JUDGE MCGUIRE: A

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14 MR. ROY ALL: I

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18 JUDGE MCGUIRE:

19 MR. BOBROW: G H J

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23 JUDGE MCGUIRE: G

24 MR. BOBROW: W

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JUDGE MCGUIRE: R . .

Mr. S

MR. STONE: J H S

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[Illegible text] I

R [Illegible text]

[Illegible text] R

[Illegible text]

[Illegible text]

JUDGE MCGUIRE: S --

MR. STONE: I --

JUDGE MCGUIRE: --

[Illegible text] ?

MR. STONE: A

I [Illegible text]

[Illegible text] T 1995

[Illegible text]

[Illegible text] 10-K. I

[Illegible text] I

JUDGE MCGUIRE: T I

[Illegible text] N, I

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8 MR. BOBROW: W
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11 JUDGE MCGUIRE: A
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 13 FTC R W
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 16 A 2002

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 18 MR. STONE: A I
 19 H I
 20 T M
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2 JUDGE MCGUIRE: D ... ?

3 MR. BOBROW: H ... T ...

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13 JUDGE MCGUIRE: O , I , I ...

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16 A 2002 ...

17 MR. STONE: T ... H ...

18 MR. BOBROW: T ... H ...

19 JUDGE MCGUIRE: O , ... ?

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21 MR. RQ ALL: I | ... H ...

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23 JUDGE MCGUIRE: O , ...

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25 MS. UK: C ...
F T R , I .

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JUDGE MCGUIRE: M... S...
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BRIAN M. SHIRLE

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JUDGE MCGUIRE: M... S...
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DIRECT EXAMINATION

B... MS. UK:

Q. G... M... S...

A. G...

Q. W...
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A. B... M... S...

Q. A... M... S...?

A. I... M... T... B... I...

Q. W... M...?

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Q. A...

1 M ... ?

2 A. S ...

3 DRAM

4 M ... T ...

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22 Q. H ... ?

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F T R , I .

W , M

(301) 870-8025

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2 A. W... 100 ...

3 Q. A ... CAD ...

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5 A. T... 30 CAD ...

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7 Q. A ...

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9 A. T...

10 Q. H ... DRAM ...

11 ... M ... ?

12 A. I ... DRAM ...

13 ... 19 -- ... 1997.

14 Q. D ... 1997

15 M ... ?

16 A. I ...

17 Q. A ... ?

18 A. P... I

19 DRAM ... 19 -- ... 1994 ...

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21 Q. A ... DRAM ...

22 ... 1994 ...

23 A. A ... I ...

24 ... T... , ...

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4 EDO

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8 1994,

9 A. I |

10 Q. A |

11 A. I | S U

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13 Q. A | S

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15 A. I | B S

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17 Q. I | DRAM |

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19 A. M | B |

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21 Q. A | M . D M ?

22 A. M . D

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25 Q. A | 1992?

1 [Illegible]

2 M... ?

3 A. T...

4 Q. A... ?

5 A. T...

6 B. D... T...

7 [Illegible]

8 [Illegible]

9 Q. A... ?

10 A. T...

11 T... L...

12 Q. A... ,

13 [Illegible] ?

14 A. V...

15 Q. A... |

16 M... ?

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22 Q. A... " ... " C...

23 [Illegible] ?

24 A. S...

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 15 JEDEC,
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19 Q. O . N ,
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23 A. S I
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 25 IBM . S

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2 Q. N [unclear]

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7 A. T [unclear] JEDEC [unclear]

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11 Q. A [unclear] I [unclear] PC-100

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13 A. I [unclear]

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16 A. R [unclear]

17 I [unclear] I [unclear] PC-100 [unclear]

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24 A. S [unclear] T [unclear] I [unclear] PC-100 [unclear]

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A. W ... M ...

Q. O ... A ...

1 | [Illegible] ?

2 | A. T. [Illegible]

3 | Q. A [Illegible]

4 | [Illegible]

5 | [Illegible]

6 | A. W. [Illegible]

7 | [Illegible] A [Illegible]

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9 | [Illegible]

10 | Q. N [Illegible]

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1 [Illegible]

2 [Illegible]

3 Q. N, [Illegible]

4 [Illegible] " C [Illegible] " [Illegible]

5 [Illegible] " ?

6 A. U [Illegible] T [Illegible]

7 [Illegible] R [Illegible] 15

8 [Illegible]

9 [Illegible]

10 [Illegible] S, 16-

11 [Illegible] 35 [Illegible]

12 [Illegible]

13 Q. D [Illegible] M [Illegible]

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16 A. W [Illegible] I

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20 Q. A [Illegible]

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23 Q. C... .. M... ..
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25 A. S

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1 A. ...
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4 A. W... I ...
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11 Q. O . N , I ...
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15 ... 256- DDR?

16 A. W... -- ...
17 ... M ...
18 ...
19 ...
20 ...

21 Q. A ...
22 ... M ... ?

23 A. U ... W...
24 ... I
25 ...

1 0.15-

2 MR. BOBROW: I H, J

3 B M T

4 JUDGE MCGUIRE: S, I

5 I

6 S,

7 MR. BOBROW: J B M

8 T. I I

9

10 M

11

12 M, I

13

14 JUDGE MCGUIRE: L

15 ? I

16 , I

17 MS. UK: H

18

19

20 JUDGE MCGUIRE: W

21

22 ? I

23

24 MS. UK: I I

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JUDGE MCGUIRE: A

MS. UK: I

JUDGE MCGUIRE: O

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S , ... H...

(A ...)

JUDGE MCGUIRE: T...

(T... V...

22, P 2, P 4204 ... 4253,

MR. STONE: I ... H... I

M...

JUDGE MCGUIRE: M. B ...

MR. BOBROW: ... I ...

JUDGE MCGUIRE: O ...

MR. STONE: T... H... I

THE REPORTER: C... ?

(D ...)

JUDGE MCGUIRE: Q ...

MS. UK: W ...

1 (T. :)

2 "QUESTION: A |

3

4 256-

5 I"

6 JUDGE MCGUIRE: Q,

7 (D)

8 JUDGE MCGUIRE: O ,

9 MS. UK: I

10 I

11 B MS. UK:

12 Q. E

13 256- DDR

14 M

15

16 A. C

17 Q. H

18

19

20 SDRAM DDR

21 R ?

22 MS. JEFFRIES: I

23

24

25

1 [REDACTED] T...

2 [REDACTED]

3 [REDACTED]

4 JUDGE MCGUIRE: W... I ...

5 , M . . H ... ?

6 MS. UK: I ...

1
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3 MS. JEFFRIES: O
4 T
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9 JUDGE MCGUIRE: I -- H
10
11 O

12 THE WITNESS: I --
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18 I
19
20
21 F 2000 2002,
22 SDRAM DDR
23

24 MS. UK: H I
25

1 JUDGE MCGUIRE: S

2 (C

3 MS. UK: A, I

4 JUDGE MCGUIRE: A, .

5 B MS. UK:

6 Q. L

7 A. O

8 Q. H

9 M R ?

10 A. I

11 Q. A R

12 ?

13 A. I

14 M W

15

16 Q. A

17 M W ?

18 A. I M

19

20 Q. W

21 A. I

22 Q. H ?

23 A. T

24

25

1 Q. A... M... 376 ?

2 A. I .

3 Q. W... M... 376 ?

4 A. I -- ...

5 I .

6 ...

7 Q. D ... M... 376

8 ... M ... W ...

9 A. I .

10 Q. A ...

11 A. I .

12 Q. W... M ... M... 376

13 ... ?

14 A. W... M ... W ...

15 ... DRAM .

16 Q. W... EDO ...

17 M ... W ...

1 A. I .

2 Q. H . . . ?

3 A. R . . .

4 . . .

5 . . .

6 Q. C . . . 376

7 . . .

8 . . . ?

9 A. T . . . 376 . . .

10 . . . DRAM . . .

11 Q. D . . . 376 . . .

12 . . .

13 . . . ?

14 A. I . . .

15 Q. W . . .

16 . . .

17 A. T . . . 376 . . .

18 . . .

19 . . .

20 Q. N , . . .

21 " . . . "

22 A. U . . .

23 Q. W . . .

24 . . . ?

25 JUDGE MCGUIRE: A . . .

1 Q. D

2 376

3 ?

4 A. N

5 Q. B M

6

7 ?

8 MS. JEFFRIES: O

9 H

10 JUDGE MCGUIRE: S

11 B MS. UK:

12 Q. D

13 M

14 ?

15 A. I

16

17 Q. D M

18 S

..... 09

10 T 2

11 B MS. U2

A... EDO 3.03 4182

1 . . . ?

2 A. I .

3 Q. W. EDO

4 . . ?

5 A. I M EDO

6

7 Q. H M

8 EDO ?

9 A. R

10

11 EDO .

12 Q. D

13 EDO ?

14 A. I

15 Q. W. ?

16 A. W

17 EDO

18

19

20

21 Q. D M EDO

22

23 ?

24 A. I

25 Q. D

1 ?

2 MS. JEFFRIES: O . . .

3 .

4 JUDGE MCGUIRE: N , I . . .

5 . O . . .

6 THE WITNESS: W . . .

7 . . . 376 . . .

8 . . .

9 . I . . .

10 . . .

11 . . .

12 B MS. UK:

13 Q. A . . . M . . . SDRAM

14 . . . ?

15 A. I . . .

16 Q. A . . . M . . . DDR SDRAM

17 . . . ?

18 A. I . . .

19 Q. H . . .

20 . . . ?

21 A. R . . . DRAM . . .

22 . . . SDR . . . DDR . . .

23 Q. D . . . SDRAM . . .

24 . . . ?

25 A. N . . .

1 Q. D M
2 SDRAM
3 ?

4 A. R A
5
6
7 T
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9 Q. D M DDR SDRAM
10 ?

11 A. T

12 Q. A -- ?

13 A. R I --
14
15
16

17 Q. D
18 JEDEC?

19 A. N , I

20 Q. B JEDEC ?

21 A. N .

22 Q. B
23 JEDEC ?

24 A. O I
25 JEDEC

1 Q. Are there any JEDEC ... ?

2 A. I

3 Q. How many JEDEC

4 ... ?

5 A. Re ...

6 ... I

7 ... JEDEC

8 Q. D ... JEDEC

9 ...

10 ... ?

11 A. T ...

12 MS. UK: T ... H ... I

13 ...

14 JUDGE MCGUIRE: O

15 H

16 ?

17 MS. JEFFRIES: I ... 2:00,

18 ...

19 JUDGE MCGUIRE: A ...

20 ... 2:00

21 Q, ...

22 (W ... 12:50 ...

23 ...)

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AFTERNOON SESSION

(2:00 . . .)

JUDGE MCGUIRE: T

A

MS. JEFFRIES: T H

CROSS EXAMINATION

MS. JEFFRIES:

Q. G , M. S.

A. G

Q. I

M

A.

Q. A

?

A. T.

Q. M

?

A. A -- I

Q. A S , T Lee

1 I . . . ?

2 A. T. . . . L. . . .

3

4 Q. A. B. . . . W. . . .

5 ?

6 A. I

7 Q. A. T. . . . W. . . . ,

8 / M ?

9 A. I I

10 T. . . . W. . . .

11 Q. H. ?

12 A. T

13 Q. A

14

15

16 I . . . ?

17 A. I

18

19 Q. A. I

20

21

22 . . . ?

23 A. T.

24 Q. A

25 M

1 A. O .

2 Q. A . . A |

3 DRAM. I . . ?

4 A. T.

5 Q. A . . A |

6 DRAM M

7 I ?

8 A. T.

9

10 Q. S ,

11

12

13 ?

14 A. T.

15 Q. A |

16

17 ?

18 A. B , T

19

1
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 4 S,
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 6
 7 (T... V
 8 22, P 2, P 4254 4288,
 9 .)

10 JUDGE MCGUIRE: O
 11 A
 12
 13 M. J.

14 MS. JEFFRIES: T. T.
 15 H.

16 B MS. JEFFRIES:
 17 Q. M. S.,
 18
 19 DDR SDRAM -- 1997. I
 20 ?

21 A. T.

22 Q. I I R -0920.
 23 M I H ?

24 JUDGE MCGUIRE:

25 MS. JEFFRIES: W

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JUDGE MCGUIRE: N

MS. JEFFRIES:

Q. M. S. I

R -0920. I

MS. UK: O H I

JUDGE MCGUIRE: R

MS. JEFFRIES: H

MS. UK: H I

JUDGE MCGUIRE: W

1 I
2 N
3 I
4

5 B MS. JEFFRIES:

6 Q. Ms. S... R -0920?

7 A. T

8 Q. W... A... 1997
9
10 T... L... K... R... G... W... J... M...
11 R... DDR...
12

13 A. T

14 Q. W...
15 ... J... M... T... L... K...
16 R... T... W... J... B... M...
17 R... DDR...
18

19 A. I
20

21 Q. A... "
22 M... R... ?

23 A. T.

24 MS. JEFFRIES: M I H... ?

25 JUDGE MCGUIRE:

1 B MS. JEFFRIES:

2 Q. I R -0976?

3 M. S. ,

4 R -0976. T.

5 J. M.

6 M .

7 D ?

8 A. I .

9 Q. A .

10 A 1997,

11 ?

12 A. I .

13 Q. A .

14 .

15 AMCC. I ?

16 A. C .

17 Q. O . I .

18 "D .

19 PLL DLL .

20 G. E ."

21 D ?

22 A. I .

23 Q. T. M. M. "J

24 R

25 "

1 [REDACTED]

2 [REDACTED] ?

3 A. U [REDACTED]

4 Q. H [REDACTED]

5 A. T [REDACTED], I [REDACTED]

6 [REDACTED]

7 JUDGE MCGUIRE: A [REDACTED]

8 THE WITNESS: O [REDACTED] (D [REDACTED]) I

9 [REDACTED] I [REDACTED]

10 B MS. JEFFRIES:

11 Q. A [REDACTED], [REDACTED] N [REDACTED]

12 [REDACTED]

13 [REDACTED]

14 [REDACTED]

15 A. I [REDACTED]

16 Q. A M. M [REDACTED], "O [REDACTED]

17 [REDACTED] R [REDACTED]

18 [REDACTED] IP [REDACTED] AMCC [REDACTED]"

19 D [REDACTED] ?

20 A. I [REDACTED]

21 Q. A [REDACTED]

22 A [REDACTED] 1997, [REDACTED]

23 [REDACTED] R [REDACTED] IP [REDACTED]

24 [REDACTED] AMCC [REDACTED] PLL [REDACTED] DLL ?

25 MS. UK: O [REDACTED]

1 The

2 AMCC PLL

3 JUDGE MCGUIRE: S

4 B MS. JEFFRIES:

5 Q. B

6 R IP

7 AMCC ?

8 A. T

9 Q. A R

10 DDR2 1999 AI

11 A. T

1 JUDGE MCGUIRE: O

2 M . ?

3 MS. UK: I

4 JUDGE MCGUIRE: T. S . ,

5

6 THE WITNESS: T.

7 JUDGE MCGUIRE: T.

8

9 H

10 ? I

11 ?

12 MR. RQ ALL: N H I

13 I

14

15

16 JUDGE MCGUIRE: O

1 C E R T I F I C A T I O N O F R E P O R T E R

2 DOCKET NUMBER: 9302

3 CASE TITLE: RAMBUS, INC.

4 DATE: JUNE 4, 2003

5

6 I HEREBY CERTIFY . . .

7 . . .

8 . . .

9 . . . FEDERAL TRADE COMMISSION . . .

10 . . .

11

12 DATED: 6/5/03

13

14

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16 SUSANNE BERGLING, RMR

17

18 C E R T I F I C A T I O N O F P R O O F R E A D E R

19

20 I HEREBY CERTIFY . . . I . . .

21 . . .

22 . . .

23

24

25 DIANE QUADE

F T R , I .

W , M

(301) 870-8025