

# UNITED STATES INTERNATIONAL TRADE COMMISSION

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In the Matter of: )  
 )  
DRAMS AND DRAM MODULES ) Investigation No.:  
FROM KOREA ) 701-TA-431 (Final)

Pages: 1 through 290

Place: Washington, D.C.

Date: June 24, 2003

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## THE UNITED STATES INTERNATIONAL TRADE COMMISSION

In the Matter of: )  
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 DRAMS AND DRAM MODULES ) Investigation No.:  
 FROM KOREA ) 701-TA-431 (Final)

Tuesday,  
 June 23, 2003

Main Hearing Room  
 Room 101  
 500 E Street, S.W.  
 Washington, D.C.

The hearing commenced, pursuant to notice, at 9:31 a.m., before the Commissioners of the United States International Trade Commission, the Honorable Deanna Tanner Okun, Chairman, presiding.

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THE HONORABLE RON WYDEN  
U.S. Senator  
State of Oregon

THE HONORABLE PETER A. DeFAZIO  
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P R O C E E D I N G S

(9:31 a.m.)

1  
2  
3 CHAIRMAN OKUN: Good morning. On behalf of  
4 the United States International Trade Commission,  
5 I welcome you to this hearing on Investigation  
6 No. 701-TA-431 (Final) involving DRAMs and DRAM  
7 Modules from Korea. The purpose of this investigation  
8 is to determine whether an industry in the United  
9 States is materially injured or threatened with  
10 material injury by reason of subsidized imports of  
11 subject merchandise.

12 Schedules setting forth the presentation of  
13 this hearing and testimony of witnesses are available  
14 at the secretary's desk.

15 I understand the parties are aware of time  
16 allocations. Any questions regarding time allocations  
17 should be directed to the secretary.

18 The Notice of Investigation is available at  
19 the secretary's table, as well as the wall racks  
20 outside the secretary's office.

21 As all written material will be entered in  
22 full into the record, it need not be read to us at  
23 this time.

24 All witnesses must be sworn in by the  
25 secretary before presenting testimony.

1           Finally, if you will be submitting documents  
2           that contain information you wish classified as  
3           business confidential, your request should comply with  
4           Commission Rule 201.6.

5           Madam Secretary, are there any preliminary  
6           matters?

7           MS. ABBOTT: No, Madam Chairman.

8           CHAIRMAN OKUN: Very well. Will you please  
9           announce our first congressional witness?

10          MS. ABBOTT: The Honorable Ron Wyden, United  
11          States Senator, State of Oregon.

12          CHAIRMAN OKUN: Welcome.

13          MR. WYDEN: Thank you very much, Madam  
14          Chair. Is that microphone on?

15          CHAIRMAN OKUN: Yes, it is.

16          MR. WYDEN: Madam Chair, I'm Ron Wyden,  
17          United States Senator from the State of Oregon, and  
18          I very much appreciate the opportunity to come before  
19          you and your colleagues today to express my concerns  
20          about this inquiry and its potential impact on workers  
21          in my home state.

22                 I respect and have complete confidence in  
23                 the commission's ability and commitment to evaluate  
24                 all of the facts in this matter, to understand the  
25                 complexities of the global and domestic DRAM markets

1 and to reach an objective and independent decision. I  
2 also believe that all of you, some of whom are former  
3 staff of the United States Senate, understand and  
4 respect my duty to represent the interests of the  
5 people of the State of Oregon.

6 Unemployment in my home state rose in May to  
7 8.2 percent. This again gives Oregon the unwelcome  
8 position as the state with the highest unemployment  
9 rate in the nation. We are in the third year of an  
10 economic meltdown and my home state of Oregon has  
11 become ground zero for economic hurt in America. The  
12 budget crisis in my state is the worst since the Great  
13 Depression; 12,400 jobs have been lost in the State of  
14 Oregon in the past year alone.

15 Economic recovery for my home state is my  
16 top priority in the United States Senate. Every job  
17 that can be retained and every new job that can be  
18 created take on greater significance against this  
19 bleak economic backdrop. Hynix has made a massive  
20 investment in a DRAM fabrication facility in Eugene.  
21 That facility represents an investment of hundreds of  
22 millions of dollars. It employs more than 1000  
23 people, many in highly skilled, highly paid jobs and,  
24 as such, is one of the largest private sector  
25 employers in my home state. The jobs at this facility



1 offer a bright light amidst an economy that is filled  
2 with shadows. That is why the commission's  
3 determination in this case is of such special  
4 importance to me.

5 A number of you, I think, are familiar with  
6 my approach to trade issues over my more than 20 years  
7 in the House of Representatives. I have voted for  
8 every single market opening agreement during my two  
9 decades in the United States Congress. I make no  
10 bones about the fact that I believe in the principles  
11 of free trade, I think it's absolutely key to opening  
12 up the economic opportunities we want for the people  
13 of this country.

14 I chaired the House Export Task Force for  
15 many years and have served on the Senate Commerce  
16 Committee since I was elected to the Senate.  
17 I understand the importance of open and free trade for  
18 job creation and for the benefit of consumers. I also  
19 know that some companies believe they can grow their  
20 bottom line faster through litigation than competition  
21 and I will tell you I believe that is the case here.

22 Rather than acknowledge that low prices and  
23 oversupply have hurt them, Hynix's competitors would  
24 rather pursue a trade case in the vain hope of  
25 eliminating Hynix as a competitor. It's no secret

1 that the global semiconductor industry, and in  
2 particular the DRAM industry, has been in a slump for  
3 a number of years. This is the result of a dramatic  
4 decline in the demand for semiconductors and has  
5 adversely affected every manufacturer, some worse than  
6 others. This is a global problem.

7 This industry historically experiences boom  
8 and bust cycles in which the fortunes of all DRAM  
9 manufacturers rise and fall together. As your  
10 examination of the semiconductor industry will show,  
11 the current situation is no different except that it  
12 has lasted longer and has been more severe than those  
13 in the past.

14 The key question the International Trade  
15 Commission must answer is whether the DRAM industry in  
16 the United States has been materially injured or  
17 threatened with material injury by Hynix's exports to  
18 the United States. In fact, during the overall period  
19 you're investigating, Hynix's exports to our country  
20 actually fell. The major reason for this is that  
21 production from the Eugene plant, which is not a  
22 factor in the determination, was increased as a result  
23 of a 2001-2002 re-tooling so Hynix could better serve  
24 its U.S. customers from its U.S. facility.

25 It is true that during the re-tooling of the

1 Eugene plant exports temporarily went up to replace  
2 lost production from the Eugene facility, but they  
3 fell again when the plant was again reopened. Because  
4 the volume of imports is one of the key factors in  
5 your injury determination, I think the fact that  
6 exports fell during the period under investigation is  
7 especially telling.

8 The Eugene facility is an integral part of  
9 Hynix's global operations. Whatever determination the  
10 commission reaches is going to affect the Eugene plant  
11 and its 1000 workers. Those of you who helped write  
12 some of the key provisions of U.S. trade law know that  
13 the goal is to create fair competition for American  
14 workers and U.S. products. Trade law was never  
15 intended to serve as a curtain behind which less  
16 competitive companies could hide until the global  
17 market for semiconductors comes back around.

18 I believe the commission is going to reach a  
19 fair and just decision that fully considers the  
20 depressed state of the world's semiconductor market  
21 and the decline in Hynix's exports to the United  
22 States during the period that's in question. In your  
23 deliberation, I would also ask the commissioners to  
24 weigh the effect your decision will have on workers in  
25 my state.

1           Let me close simply by saying that I would  
2 not be making an appearance before the commission  
3 today unless I felt that this was a particularly key  
4 time for my state and for the workers in this  
5 particular facility. I have never seen this level of  
6 economic pain during my career in public service and  
7 I believe -- I know my colleague, Congressman DeFazio,  
8 is going to talk as well -- I believe that it is  
9 imperative that this decision be evaluated on the  
10 merits.

11           We have confidence in your ability to look  
12 at it in a fair and objective way and we are very  
13 hopeful that our views will be considered and those  
14 views will be factored into any judgments you make.

15           Thank you.

16           CHAIRMAN OKUN: Thank you very much,  
17 Senator Wyden.

18           Let me check with my colleagues and see if  
19 anyone has questions for you.

20           COMMISSIONER HILLMAN: Senator Wyden, first,  
21 thank you very much for appearing here and we very  
22 much appreciate it.

23           I guess I had a question in terms of this  
24 issue of your closing comment on weighing the effect  
25 on workers in Oregon. I have watched a lot of these

1 cases in which we've seen duties be placed on a  
2 product, the resulting effect of which is the foreign  
3 companies investing more and producing in the United  
4 States in order to get around the duties. I don't  
5 know whether you have any sense of what the situation  
6 would be.

7 Obviously, if there were duties placed on  
8 it, one of the things that Hynix could do is produce  
9 entirely in the United States so that their product is  
10 no longer considered an import, no longer subject to a  
11 duty. That's something that we've seen happen in many  
12 other products.

13 I'm just trying to sort out your comment on  
14 weighing the effect on workers in Oregon. Do you have  
15 a sense of how that weighing should occur? I mean, is  
16 it more likely that more production would be in the  
17 United States or less?

18 MR. WYDEN: I think that we have made  
19 recommendations that are going to result overall in  
20 the maximum number of jobs in the United States and in  
21 Oregon at this very key time.

22 Part of our concern is that Oregon and this  
23 plant in this community are especially vulnerable.  
24 Literally week after week after week we have seen  
25 plants in this community close. They cannot afford

1 another body blow. I mean, it is staggering the kind  
2 of economic hurt in this area and I think the  
3 recommendations that we're making today will result in  
4 more jobs both in the short term and in the long term  
5 and I would ask, and it's the point of my closing  
6 statement, that as you evaluate this case on the  
7 merits, which is your job and we respect you as you go  
8 about the business of tackling it, that you also have  
9 a full sense of just how devastating the economic loss  
10 is in this part of our country.

11 COMMISSIONER HILLMAN: I appreciate that.

12 COMMISSIONER KOPLAN: Thank you, Madam  
13 Chairman. I just have one brief comment.

14 The fact that we have empty chairs up here  
15 does not signify a lack of interest in your testimony  
16 this morning. We have two nominees pending in the  
17 Senate and one recused, so you've got 100 percent of  
18 us as it stands right now.

19 MR. WYDEN: I thank you and we'll do  
20 everything we can to expedite those decisions. We're  
21 asking for help here, so we want to make sure you have  
22 a full house.

23 CHAIRMAN OKUN: Thank you very much.

24 Thank you, Commissioner Koplan, Vice  
25 Chairman Hillman.

1                   With no other questions, I want to thank you  
2 again, Senator Wyden, for your testimony.

3                   MR. WYDEN: Thank you. I'll wait for my  
4 colleague and then I'll be excused because he and  
5 I have been a partnership for Oregon on all of these  
6 issues and we appreciate your letting both of us  
7 testify.

8                   CHAIRMAN OKUN: Thank you.

9                   MS. ABBOTT: The Honorable Peter A. DeFazio,  
10 United States Congressman, 4th District, State of  
11 Oregon.

12                   CHAIRMAN OKUN: Welcome.

13                   MR. DeFAZIO: Thank you, Madam Chair,  
14 Commissioners.

15                   In just starting with a further response to  
16 Ms. Hillman's point, it's an excellent question and  
17 one which I've wrestled with because obviously I want  
18 to maximize the jobs in the United States, too, and  
19 that's consistently what I've tried to do in the  
20 positions I've taken on trade issues.

21                   I think the key point here would be tariffs  
22 at the highest level that's being mentioned or  
23 contemplated, as I understand it, would be so punitive  
24 and disruptive at a time when, as you know, the entire  
25 industry is weak, that we've got to question whether

1 or not the company would continue and continue in this  
2 particular line of business. I think the long-term  
3 trend is for them, and they are planning another  
4 \$100 million investment in the Eugene plant, to  
5 increase their productive capacity here, as they have  
6 over the term of this particular period in question.  
7 But I'm very concerned what a blow of that magnitude  
8 at this weak point in the market would mean and  
9 whether or not they would continue or have to seek  
10 protection under bankruptcy and what the implications  
11 of that might be.

12 We might also remember that it wasn't too  
13 long ago that Micron was attempting or involved in  
14 discussions to purchase the Eugene plant from Hynix,  
15 so there's a whole lot of imponderables out there, so  
16 that's the best I can do with that kind of a murky  
17 crystal ball, but I think that's something that does  
18 go to the heart of this issue.

19 And I'll try not to repeat some of the  
20 points, although I will emphasize a couple the senator  
21 made. I've submitted my statement in full for the  
22 record, but just to start again at the extraordinary  
23 level of concern, I can remember one day about a month  
24 ago where we lost -- we've already had a persistently  
25 high unemployment rate in my district, we lost 2500



1 jobs in one week. We lost a Sony manufacturing plant  
2 because of changes in the market, a CD plant; we had a  
3 wood products plant go down because, they said, mostly  
4 because of subsidized Canadian imports, a flood of  
5 Canadian imports that are coming into the U.S., and we  
6 temporarily laid off a large number of people at a  
7 motor coach manufacturer. And this is in a district  
8 that already has extraordinarily high unemployment.  
9 So this is key, whether it's short or long term, to  
10 have this plant as part of our base.

11 Obviously, the complexities are far beyond  
12 me and that's why we have you and your expertise  
13 before us, but as I look at the issue on which the  
14 factors you have to bring into account, it seems that  
15 there are some interesting questions which go to the  
16 level of harm, whether there was harm, in particular  
17 the fact that their exports, as the senator said, did  
18 over this time period, with the exception of when they  
19 were re-tooling the Eugene plant, actually went down.  
20 It raises a question about what harm it caused to U.S.  
21 competitors versus the harm that's been caused to  
22 everybody because of the extraordinary downturn in the  
23 market.

24 They did increase and invest in the U.S.  
25 plant during this time period to better serve

1 customers and to provide a new generation of chips, a  
2 very major investment.

3           Pretty much everybody, and particularly the  
4 U.S. manufacturers until recently, fairly recently,  
5 was doing really well and then everybody dropped off.  
6 So, I mean, again, to single out a particular harm to  
7 another company in the U.S. versus the overall harm to  
8 the industry and the squabbling over the shrinking pie  
9 is really, I think, an interesting question and a  
10 factual situation to be determined.

11           And then as I understand, again, not being  
12 an expert, but as I understand DRAMs, it's not  
13 something that is just sort of like a consumer  
14 commodity that you just dump on the market or you can  
15 produce huge numbers of in an untailed way, but they  
16 are much more responsive to specific applications and  
17 that in this case, it would be very hard to just sort  
18 of flood the market without having consumers on the  
19 other end of the equation, meeting their legitimate  
20 demands.

21           So, again, it sort of brings us back to the  
22 overall cycle and how much of this is about the cycle.  
23 I would posit that we probably wouldn't be sitting  
24 here today if everybody was doing better, whether  
25 Micron or others would be investing so much time and

1 energy and tremendous legal talent and expense in  
2 pursuing such a case if the markets were not so  
3 sickly, something beyond our capability of dealing  
4 with today.

5 I think another thing that's telling and,  
6 you know, I mean, often as a politician you stand or  
7 fall on what you say to people, whether it's in or out  
8 of context or you say it here or in Washington,  
9 I thought it was kind of interesting that in the June  
10 conference call regarding earnings that the Micron  
11 leadership attributed the softening of the  
12 semiconductor market and falling prices "principally  
13 to two factors: seasonal weakness in computer demand  
14 and relative leveling of memory content per system."  
15 No mention of Hynix or unfair foreign competition or  
16 the pending case, they don't seem to think it's a  
17 major factor there, but they come here and say this an  
18 extraordinary, major factor affecting our profits and  
19 our capability to continue in the business. So,  
20 again, just a little tiny piece of the puzzle.

21 So I would just hope that in framing this  
22 decision on this very complex matter and bringing in  
23 all the factors you have to bring in that, again, you  
24 go back to the point Ms. Hillman in weighing whether  
25 or not this would actually lead to -- and I'm not at

1 all capable of judging that, lead to more  
2 investigation and more production in the United States  
3 should substantial tariffs be levied or if you levy  
4 them over a certain point whether we lose this whole  
5 company and we lose those critical 1000-plus jobs in a  
6 part of the country and a part of my state and my  
7 district that is hurting extraordinarily already. So  
8 I leave this to your wisdom and I would be happy to  
9 respond to any questions.

10 CHAIRMAN OKUN: Thank you.

11 Senator Wyden?

12 MR. WYDEN: Madam Chair, I know this is  
13 unorthodox because you were gracious enough to give me  
14 an opportunity at the outset, but one other point with  
15 respect to Ms. Hillman's question.

16 It seems to me by any calculus if Hynix is  
17 going to have to pay higher tariffs on DRAMs at this  
18 point they are going to have fewer dollars to invest  
19 in Eugene, this hard hit community, and then your  
20 equation becomes high tariffs equals less investment  
21 in Eugene, which means fewer jobs and I think by any  
22 calculus, that's what we're concerned about right now.  
23 Right now, that just looks to me like the inevitable  
24 kind of scenario and that's what's going to harm our  
25 state and what the congressman and I are so concerned

1 about.

2 CHAIRMAN OKUN: Let me check with my  
3 colleagues.

4 Vice Chairman Hillman?

5 COMMISSIONER HILLMAN: I have no further  
6 questions.

7 Thank you. I very much appreciate your  
8 appearance.

9 CHAIRMAN OKUN: Commissioner Koplan? No.

10 Very well. Before you go, I would note that  
11 the commission received the June 23, 2003 letter from  
12 both of you as well as members of your delegation and  
13 it looks like the Washington delegation as well and  
14 that will be made part of the record.

15 And with no further questions, we thank you  
16 very much for your testimony today.

17 MR. DeFAZIO: Thank you, Madam Chair.

18 MR. WYDEN: Thank you all.

19 CHAIRMAN OKUN: Madam Secretary, I believe  
20 we will go to the opening statements at this point.

21 MS. ABBOTT: Opening remarks on behalf of  
22 the petitioner and domestic producers will be made by  
23 Gilbert B. Kaplan, Hale and Dorr.

24 CHAIRMAN OKUN: Welcome, Mr. Kaplan.

25 MR. KAPLAN: Thank you, Madam Chairman.

1 Thank you for the opportunity to appear here today.  
2 It is always a pleasure to be before the United States  
3 International Trade Commission.

4 A number of points stand out very clearly  
5 when looking at this case. First, the subsidies are  
6 very large, if not the largest ever, in a case of this  
7 sort. These are 45 percent subsidies with no facts  
8 available elements. They are being provided in a  
9 highly priced, competitive commodity industry with  
10 only four major competitors. They are being provided  
11 to an established producer which itself was the result  
12 of a merger between two major Korean producers and  
13 that producer has a large part of the DRAM market.

14 The subsidies are being provided at a time  
15 when demand is continuing to grow, but supply is  
16 growing at a much faster rate.

17 The size of these subsidies skews  
18 competition to an incredible degree. During the  
19 Commerce period of investigation from public data the  
20 subsidies to Hynix exceeded \$2 billion. This amount,  
21 \$2 billion, is over 48 percent of Micron's gross  
22 revenues during that period. We lost over a billion  
23 dollars during that period, but this subsidy is  
24 \$700 million more than that loss. In other words, if  
25 Micron were given this subsidy by someone, we would be

1 running with an operating profit.

2 But the significance of these subsidies  
3 really goes beyond an 18-month profit or loss and the  
4 \$2 billion is not a full measure of the subsidy. This  
5 \$2 billion is essentially a snapshot of the loan and  
6 grant benefits during the period of investigation.  
7 That's the way Commerce captures the subsidy effect  
8 during the POI. But Hynix receives loans and grants  
9 whose benefits extend over time.

10 Hynix's total debt relief is \$16 billion and  
11 that includes a package of \$4 billion of loan  
12 rollovers, debt-equity swaps and other aid given in  
13 December 2002, after the filing of this case.

14 These are the subsidies that keep on giving.  
15 That \$16 billion exceeds the total market cap of  
16 Micron and Infineon combined and based on public  
17 numbers is almost three times the entire value of DRAM  
18 sales in the United States during 2002. This  
19 competitor, Hynix, should not really be in this  
20 industry any more. It needed enormous subsidies just  
21 to stay in when no one else got any subsidies. At a  
22 minimum, it should not have grown or it should have  
23 contracted. That did not occur.

24 So how do you compete? How are we supposed  
25 to compete against subsidies at that level? At least

1 one answer is the following: You have to lower your  
2 prices through the floor to keep up with the  
3 subsidized prices of Hynix.

4 Hynix could not keep manufacturing and  
5 selling and they could not keep selling at the price  
6 levels they are at, which are obviously well below  
7 cost as you can see from the public financials,  
8 without these subsidies.

9 If we want to stay in business in this  
10 commodity industry, we have to meet or beat these  
11 subsidized prices to the full extent we can.

12 So what are the implications for the U.S.  
13 industry of this kind of subsidization?

14 We have spelled out the implications in our  
15 briefs, but to summarize, lowering Micron's prices to  
16 that extent has caused enormous losses and Micron has  
17 had the first layoffs it has ever had since the 1985  
18 Japanese dumping phenomenon.

19 The downturn caused by these subsidies has  
20 been unique. Hynix itself admitted in its case brief  
21 to Commerce that this downturn was the deepest in the  
22 history of the DRAM industry.

23 But what has caused the downturn?

24 Hynix seems to ignore that obvious question.  
25 There are only four major producers. This is not a



1 situation like the 1985 Japanese dumping phenomenon  
2 where six major Japanese suppliers were battling to  
3 build market share against 11 U.S. suppliers and it  
4 was all at a time of a growing new industry. The  
5 downturn here, the different phenomenon here, is the  
6 billions of dollars of subsidies given by one  
7 government to one company in this four-member  
8 industry.

9 For all of these reasons, we respectfully  
10 request that you make an affirmative determination in  
11 this case.

12 Thank you.

13 CHAIRMAN OKUN: Thank you. Thank you,  
14 Mr. Kaplan.

15 I note the arrival of Senator Craig. We are  
16 prepared, Senator Craig, to take your statement now.

17 If I could just ask the secretary to put up  
18 the senator's nameplate?

19 MS. ABBOTT: The Honorable Larry E. Craig,  
20 United States Senator, State of Idaho.

21 CHAIRMAN OKUN: Welcome.

22 MR. CRAIG: Thank you very much, Madam  
23 Chairman. It's great to be before you again.

24 And to all of the commissioners, thank you  
25 for being here to listen to testimony this morning.

1                   I say before you again, and it's great to  
2 see some faces that are familiar, but not for the  
3 reason I'm here. I am here this morning on a very  
4 critical matter, a matter that is of great importance  
5 to the State of Idaho and to the U.S. DRAM or memory  
6 chip industry. Idaho, as you know, is the proud  
7 headquarters of Micron Technology, the world's second  
8 largest DRAM producer. Micron has achieved this  
9 status by consistent focus on fundamentals of the  
10 semiconductor industry and its production, technology  
11 leadership, cost control and, I have watched them from  
12 their beginning, plain old hard work.

13                   From modest beginnings, this company has  
14 grown and flourished in a very, very tough industry.  
15 Micron is the largest private employer in the State of  
16 Idaho. Let me repeat that: Micron is the largest  
17 private employer in the State of Idaho with about 9500  
18 employees. Micron contributes significantly to the  
19 economic well being of all Idahoans by creating well  
20 paid, high technically valuable jobs and by generating  
21 significant tax revenue. And, of course, as you would  
22 all suspect, these revenues find their ways into our  
23 schools and into our emergency services and into a lot  
24 of other governmental entities.

25                   Micron now also has several large

1 manufacturing locations overseas, but it has never  
2 sacrificed jobs or investment in Idaho in its effort  
3 to become a global force in the DRAM industry.

4 Times are very tough for Micron right now.  
5 You've just heard testimony to that fact. Micron is  
6 struggling under the weight of 11 straight quarters of  
7 losses. These losses are a source of deep concern in  
8 my state of Idaho, not only for the present condition  
9 of Micron, but also for the future viability of this  
10 company.

11 This spring, Micron was forced to institute  
12 a major layoff that affected 10 percent of Micron's  
13 workforce. This resulted in the loss of 1100 jobs in  
14 Idaho alone, a lot for a state the size of ours and,  
15 of course, significant layoffs right here in this  
16 area, in Virginia, and in the State of Utah.

17 The Idaho legislature with the tax losses in  
18 substantial part due to Micron's downturns struggled  
19 mightily for the longest session of the legislature in  
20 Idaho history how to adjust revenues because of the  
21 losses this industry has faced in part.

22 Layoffs have been extremely rare for Micron.  
23 In fact, Micron has not laid off since 1985, as you  
24 just heard, and that, of course, was at the height of  
25 the illegal Japanese DRAM dumping in this economy.

1                   I cannot begin to tell you of the  
2           devastating impact these sorts of layoffs have in a  
3           state the size of Idaho, a state of 1.2 million  
4           people, from both the economic standpoint and from the  
5           standpoint of the morale and the optimism about our  
6           future and the economic stability of our state.

7                   I have been following the DRAM industry for  
8           20 years and the life literally of Micron during that  
9           period of time. In my view, the problem in the DRAM  
10          industry today can be linked directly to the massive  
11          subsidies that the Korean Government has been giving  
12          to one of its two DRAM producers, Hynix.

13                  Over the past two years, government and bank  
14          bailouts to Hynix have amounted to \$16 billion and  
15          have served to prop up a company that would otherwise  
16          have been out of business.

17                  I am the supporter of letting markets work,  
18          but when a company is broke, it should either be  
19          restructured or liquidated. In the case of Hynix,  
20          however, the Korean Government has given Hynix five  
21          separate bailout packages which have preserved Hynix's  
22          position as the third largest producer of DRAMs in the  
23          world. Neither restructuring or liquidation has  
24          occurred. Quite the opposite. This wouldn't be so  
25          bad if they consumed, meaning Korea, a lot of the

1 DRAMs that they produce. They don't. Which means  
2 that Hynix exports over 90 percent of the DRAMs they  
3 make, many of which end up right here in U.S. markets.  
4 This has a very direct and very negative impact on  
5 Micron because the subsidies, as has just been  
6 explained, let Hynix undercut the world market  
7 dramatically.

8           Micron is the only U.S.-based DRAM producer  
9 left. How can we expect Micron to compete with  
10 \$16 billion in government bailout? Last year, total  
11 global DRAM sales for all DRAMs produced was only  
12 \$15 billion total sales. Hynix got a billion dollars  
13 more in total subsidies than total sales worldwide.  
14 Such action is indefensible and has caused direct and  
15 substantial injury to Micron.

16           Last week, the Department of Commerce found  
17 that Hynix received subsidies equalling 45 percent of  
18 their sales. This means that for every dollar that  
19 they had in sales they got a subsidy of nearly 50  
20 cents. In other words, Hynix has been found guilty.  
21 Obviously you are to determine injury.

22           The magnitude of these subsidies is not news  
23 to me. I have been working on this issue for a long  
24 time with Ambassador Zoellick and with Secretary Evans  
25 to try to fix the problem. From the very day this

1 administration, the current administration, set foot  
2 in town, I began to talk to them about an overpowering  
3 problem that we had to deal with with the Koreans and  
4 Hynix or we could lose a major industry in this nation  
5 and in my state of Idaho. They both met with Korean  
6 officials on numerous occasions and warned them time  
7 and again about the harm the U.S. companies were  
8 experiencing under these huge subsidies. The U.S.  
9 Government also raised this at the WTO subsidies  
10 committee, the Korean Government apparently wasn't  
11 listening because Hynix received another \$4 billion in  
12 bailouts after Micron filed this trade case.

13 I have a strong interest in U.S. trade  
14 policy. I have been, as you've mentioned, before you  
15 several times discussing it with you. I also have an  
16 ongoing interest in defending the integrity of U.S.  
17 trade relief laws. Idaho has unfortunately  
18 experienced firsthand the impact of unfair trade  
19 practices. Micron is important not only to the state  
20 of Idaho, but also to the economy and the national  
21 security of our country as our lone producer of DRAMs.

22 We cannot afford to lose important  
23 technology innovators and effective manufacturers and  
24 efficient manufacturers like Micron, especially when  
25 we could lose them based on unfair foreign subsidies.

1           We all value trade. We all value fair trade  
2           and open trade. But when a private company stumbles  
3           and falls because a foreign government is openly and  
4           directly subsidizing and largely ignoring  
5           international trade law, justice must be rendered.

6           The fate of a large and valuable employer in  
7           my state is in your hands. On behalf of the people of  
8           the state of Idaho and the employees of Micron, I want  
9           to thank you for the opportunity to be here today and  
10          for you giving me the time to listen.

11          Thank you so much.

12          CHAIRMAN OKUN: And thank you, Senator  
13          Craig.

14          Let me check with my colleagues to see if  
15          there are any questions of the Senator this morning.

16          (No response.)

17          CHAIRMAN OKUN: Thank you once again for  
18          your testimony and your full statement will be  
19          submitted to the record as well.

20          MR. CRAIG: Thank you.

21          CHAIRMAN OKUN: Thank you.

22          MS. ABBOTT: Opening remarks on behalf of  
23          the respondents will be made by Daniel L. Porter of  
24          Willkie Farr & Gallagher.

25          CHAIRMAN OKUN: Good morning, Mr. Porter.

1 MR. PORTER: Madam Chairman Okun, Vice  
2 Chairman Hillman, Commissioner Koplan, good morning.  
3 For the record, my name is Daniel Porter of the law  
4 firm of Willkie Farr & Gallagher. We are appearing  
5 today on behalf of Hynix Semiconductor.

6 In my brief few minutes, I want to talk  
7 about three distinct aspects of the DRAM market and  
8 how they relate to the analysis that you must do under  
9 the statute.

10 Distinct feature number one: the well-known  
11 business cycle. All the parties agree that the DRAM  
12 industry has endured a continuing history of boom/bust  
13 business cycles and so DRAM producers are subjected to  
14 wide swings between boom and bust years.

15 Now what does this mean for the commission's  
16 analysis?

17 It means that downturns are not necessarily  
18 a sign of material injury; rather, they are a normal  
19 feature of this industry. It also means that when  
20 examining evidence of injury, simple year over year  
21 changes are less meaningful. Rather, you need to step  
22 back and put the year-to-year fluctuations in the  
23 context of the overall business cycle.

24 In fact, the very best example of this is  
25 the last time that Micron was here in this room before



1 you in October 1999, during the Taiwan DRAMs case. At  
2 the hearing, Micron argued passionately that Micron  
3 would suffer all sorts of doom and gloom if the  
4 antidumping duties were not imposed on the Taiwanese  
5 suppliers. As evidence of Micron's injury,  
6 Mr. Sadler, who is here today, pointed to large losses  
7 suffered by Micron in its two previous fiscal years.  
8 In the end, the commission rendered a negative  
9 determination and so no antidumping duties were  
10 imposed on the Taiwanese.

11 Now, what then happened to Micron?

12 Did Micron suffer all the doom and gloom  
13 predicted at the ITC hearing?

14 No, Micron did not. For fiscal 2000, Micron  
15 ended up earning \$2.4 billion of operating profit, for  
16 an operating profit rate of 39 percent. The boom part  
17 of the cycle had returned.

18 The second distinctive feature of the DRAM  
19 market I want to highlight is worldwide prices. DRAMs  
20 are a global commodity product and, in fact, all of  
21 the major DRAM customers insist that their DRAM  
22 suppliers offer a single worldwide price.

23 Now, what does this mean for this case?

24 Well, I believe that this fact makes your  
25 job a bit harder because when analyzing price effects

1 essentially you must assess the extent to which  
2 Hynix's shipments from Korea to the United States  
3 alone affect the worldwide price. Under the law, the  
4 focus in this case is on just Hynix U.S. imports of  
5 Korean fabricated DRAMs, not total Hynix production.  
6 And so because Micron charges its U.S. customers a  
7 worldwide price, you need to analyze whether the  
8 prices of the small volume of Hynix shipments to the  
9 United States are able to influence the worldwide  
10 price of DRAMs. We submit that any price effects from  
11 Hynix's shipments to the rest of the world and any  
12 price effects from Hynix's U.S. shipments of its  
13 U.S.-made DRAMs cannot be considered the adverse price  
14 effects from subject imports contemplated by the  
15 statute.

16 The final distinctive aspect of the DRAM  
17 market that I want to talk about is the fact that DRAM  
18 products are essentially interchangeable among  
19 different suppliers. This fact, interchangeability  
20 among suppliers, is not disputed by any of the parties  
21 and has been confirmed by the commission's staff.

22 Now, what does it mean for this case?

23 What it means is that there is an 800-pound  
24 gorilla in this room that Micron desperately wants you  
25 to ignore: non-subject imports.

1           The arguments in Micron's legal brief convey  
2           a world of just Hynix and Micron, but that picture  
3           does not adequately describe the real world DRAM  
4           market. In the real world DRAM market, Micron is not  
5           just competing against Hynix, but is also competing  
6           against non-subject imports from Infineon in Germany,  
7           non-subject imports from Samsung in Korea and  
8           non-subject imports from Nanya in Taiwan, each one a  
9           fierce competitor and each one having a sizeable  
10          presence in the U.S. market and a sizeable global  
11          presence. And for your analysis, the most important  
12          fact is that non-subject imports are substantially  
13          larger than subject imports by Hynix. We cannot  
14          emphasize this point enough.

15                 Publicly available data indicate that  
16          non-subject imports are many multiples larger than  
17          subject imports from Hynix. Many multiples larger.  
18          And this huge difference is not just about volumes,  
19          but also growth. Again, publicly available data  
20          indicates that in contrast to Hynix's market share  
21          over the period which was stable to declining,  
22          non-subject imports dramatically increased their  
23          market share.

24                 So the question becomes when you have a  
25          global commodity product that is interchangeable among

1 all the largest players, can Micron prove that all of  
2 their financial woes were caused by Hynix's small and  
3 declining subject imports alone?

4 I submit that the answer is unequivocally  
5 no. Boom/bust cycle, worldwide prices, much larger  
6 non-subject imports. I ask that you keep these  
7 critical facts in mind when you listen to today's  
8 presentations.

9 Thank you.

10 CHAIRMAN OKUN: Thank you, Mr. Porter.

11 MS. ABBOTT: The first panel in support  
12 of the imposition of countervailing duties. The  
13 witnesses have been sworn.

14 CHAIRMAN OKUN: We just need your name tag  
15 turned around there so we can see you, Mr. Appleton.  
16 Thank you very much. I appreciate that.

17 It looks like your panel is ready to  
18 proceed, Mr. Kaplan, Mr. Rosenthal.

19 MR. KAPLAN: Thank you very much.  
20 Hello again. I will introduce the panel but let me  
21 make a few remarks as I do that.

22 As I noted, the downturn caused by the  
23 subsidies has been unique, both in terms of its  
24 severity and its duration. Prices have dropped below  
25 the learning curve for a sustained period, over two

1 years so far, and Micron's losses have extended over  
2 three calendar years so far with no end in sight.

3 In terms of the real injury numbers here,  
4 I would direct you to confidential chart 3, which we  
5 have handed out, which is a cumulative chart. In its  
6 May 22nd case brief to the Department of Commerce, on  
7 page 99, Hynix says, "By October 2001, the DRAM  
8 industry had experienced price declines never seen  
9 before."

10 October 2001 was the date of the second  
11 multi-billion dollar bailout from the Government of  
12 Korea to Hynix and Hynix's statement is correct. This  
13 is an industry where you continually have to reinvest:  
14 reinvest in R&D and capital equipment to stay in the  
15 game from generation to generation. These billion  
16 dollar subsidies have skewed that competition  
17 immeasurably and it may take years for the effect on  
18 the competitive bounce to be rectified and it will  
19 require a CVD order to do it.

20 Steve Appleton, Chairman, CE&O and President  
21 of Micron Technology, will discuss the conditions at  
22 Micron.

23 Mike Sadler, our Vice President for  
24 Worldwide Sales, will discuss pricing and competition  
25 in this industry.

1                   In considering pricing as we go through  
2                   today's presentation, I would direct you to  
3                   confidential charts 1 and 2.

4                   Professor Jerry Hausman of MIT will also  
5                   discuss the nature of the competition in this industry  
6                   and pricing. Bonnie Byers will discuss threat.  
7                   Mr. Rosenthal and the representatives from Infineon  
8                   will also discuss how prices are set in this industry  
9                   and the impact Hynix has had on pricing.

10                  In considering this case, it is important to  
11                  look at current injury and also at issues of threat.  
12                  As I said, the Government of Korea gave a full, new  
13                  bailout to Hynix in December 2002 amounting to another  
14                  \$4 billion in debt relief. The Government of Korea  
15                  has clearly indicated they will continue to cover the  
16                  losses of Hynix no matter how long they continue.  
17                  And, as I also said, the subsidies in effect are being  
18                  given over time because many of them constitute  
19                  ongoing reductions in interest rates and ongoing grant  
20                  benefits, so we will have to compete against these  
21                  subsidies for years into the future.

22                  Mr. Appleton?

23                  MR. APPLETON: Thank you, Mr. Kaplan.

24                  Good morning, Madam Chairman, members of the  
25                  commission, commission staff and ladies and gentlemen.

1                   I want to first take the opportunity to  
2                   thank both the Commerce Department and the  
3                   International Trade Commission for all of the time and  
4                   effort required to evaluate this case. I realize it  
5                   can sometimes be a difficult process with all of us  
6                   trying to give more data and input than you want or  
7                   need, but we do sincerely appreciate the work that you  
8                   and your staff do.

9                   For my testimony today, I considered  
10                  describing the evolution of the industry over the last  
11                  20 years, the difficulties Micron encountered, the  
12                  irrational capacity expansions that changed the faces  
13                  in our industry and the many artificial market  
14                  manipulations that have occurred. But I think I can  
15                  make better use of your time today in this hearing by  
16                  focusing specifically on the issue before us and that  
17                  issue is injury: has the U.S. DRAM industry been  
18                  injured and, if so, did the Korean Government  
19                  subsidies cause it?

20                  Let me begin with the question of has there  
21                  been injury. Hynix, as was stated in the opening  
22                  statement, will attempt to claim that the industry is  
23                  simply experiencing a normal cycle and that whatever  
24                  adverse effect we are encountering is normal. I can  
25                  assure you from my experience of 20 years in the DRAM

1 industry there is nothing normal about what is  
2 currently happening.

3 Why is it that I say that?

4 At the preliminary hearing seven months ago,  
5 Micron spoke about the difficulty in being able to  
6 replace over 1000 positions in the company. We simply  
7 could not afford to. The situation has only  
8 deteriorated since then.

9 I realize companies have layoffs all the  
10 time, but that is not true for Micron. I personally  
11 have a very strong dislike for that approach. It was  
12 mentioned in 1985 we had that experience, I was not in  
13 leadership at the time, but it did occur. However,  
14 during my entire Micron career as an executive, which  
15 covers almost 15 years and several cycles, the company  
16 had never had a layoff. Unfortunately, that is one  
17 record I was sorry to break. We simply could not  
18 avoid it and, as already mentioned, a few months ago  
19 we had to lay off over 10 percent of our people.

20 I can assure you that was not normal for  
21 Micron. Last fall, I spoke about having a facility 30  
22 minutes from this building in Manassas, that it was  
23 only 30 percent utilized. I'm sorry to say that since  
24 then we were forced to reduce it down to 5 percent.  
25 Again, to give you a frame of reference for normalcy,



1 this is the first time I have had to operate a fab at  
2 that level during my entire executive career at  
3 Micron.

4 Today you will hear a lot of discussion  
5 about financial numbers, but I want to make two points  
6 that should not get lost in the detail:

7 First, the health of almost every public  
8 company is ultimately measured by profits. In  
9 Micron's fiscal 2001, what was at that time, we  
10 reported a record net loss of \$625 million. In fiscal  
11 2002, we again set a new record loss of \$907 million.  
12 So far in fiscal 2003, we have already lost over \$1.1  
13 billion, totalling over \$2.5 billion in the last three  
14 years.

15 To help illustrate what a dramatic shift  
16 this is, even over a 10-year period, I would direct  
17 you to public chart number 6, and it looks like this,  
18 and it gives a 10-year history of Micron's profits.  
19 This data demonstrates even more why this cycle is  
20 very different.

21 As a result, we have had a very difficult  
22 time trying to raise money. In fact, we tried to  
23 borrow money to buy new equipment but we could not  
24 find any financial institution willing to loan us  
25 anywhere near what we needed. We were forced to raise

1 money through equity at the lowest stock price and  
2 under the worst terms that I have experienced since  
3 becoming CEO almost a decade ago. I don't think my  
4 shareholders believe this is normal.

5           The annual capital requirements in this  
6 industry are very, very high. Despite what Hynix may  
7 try to claim, Micron's ability to buy equipment  
8 continues to decline. Let's take a look at the  
9 factors that decide whether a company can buy  
10 equipment, but before we do, I need to explain an  
11 important factor regarding semiconductor equipment  
12 purchases. Once an order is placed, the equipment  
13 takes between nine and 12 months for delivery, after  
14 which a company actually pays for it. As a result, a  
15 company's reported expenditures are typically offset  
16 by one year. With that in mind, let's talk about  
17 obvious metric, cash flow from operations.

18           Our cash flow from operations in fiscal 2000  
19 was \$2 billion, a pretty good year, as already was  
20 mentioned. But that cash flow in fiscal 2001  
21 decreased to \$789 million. In fiscal 2002, it  
22 decreased to \$578 million. And so far, through three  
23 quarters of 2003, it has decreased to \$172 million.  
24 In each of those years, with the exception of 2000,  
25 our actual capital expenditures far exceeded the cash

1 flows needed to pay for the equipment. But if you  
2 consider the delayed cash flow effect I mentioned  
3 earlier and you combine that with our increasing debt,  
4 you can see that it is becoming increasingly difficult  
5 to find the cash moving forward in what is a very  
6 capital intensive business.

7 Another metric is our return on invested  
8 capital, often looked at by investors. In fiscal  
9 2000, again, it was pretty good, it was 25 percent.  
10 In fiscal 2001, it had dropped to a negative  
11 7 percent. In fiscal 2002, it had again dropped  
12 further to a negative 12 percent. And so far, in  
13 2003, it is worsening and again now running negative  
14 17 percent.

15 Also keep in mind that the equipment costs  
16 have been increasing as the technology gets more  
17 complex, so even if our capital expenditures stayed  
18 the same, which they are not, we would be falling  
19 behind.

20 Another example of why this is not a normal  
21 cycle, for more than a decade, Micron's overall  
22 compensation system has essentially remained  
23 unchanged. The way we paid our employees was  
24 primarily based on the profits of the company. That  
25 is now being challenged. In other words, all our

1 employees, from the production operation to the vice  
2 president, have experienced a significant decline in  
3 compensation for what is now the longest period in  
4 Micron's history. The program that served the company  
5 so well during normal cycles no longer works. There  
6 is no uncertainty here about injury.

7 I would like to change our direction and  
8 focus on what is causing this injury. Capital  
9 equipment is turned over very quickly in this  
10 industry. All of Hynix's current capacity was paid  
11 for by debt that will never be paid back. In other  
12 words, the money the Korean Government provided Hynix  
13 over the last three to five years is now in the form  
14 of production capacity, the same capacity that is  
15 currently supplying product into the marketplace.  
16 This equipment, as a result of the debt write-offs,  
17 now makes up little, if any, of Hynix's cost to  
18 produce a DRAM.

19 Most of us in the DRAM industry acknowledge  
20 that the lowest cost producer will ultimately offer  
21 their product at the most aggressive selling price.  
22 Even Hynix, in their pre-hearing brief, acknowledges  
23 this belief. But what they will not admit is that  
24 their subsidies have made them the lowest cost  
25 producer.

1                   When we look at just their 2002 financial  
2                   statements in the context of the Department of  
3                   Commerce ruling for the covered period, the subsidies  
4                   represented approximately 50 percent of Hynix's cost  
5                   of goods sold. If any of the other major producers  
6                   could instantly reduce their cost of goods sold by  
7                   50 percent from their current levels, they would  
8                   immediately become the lowest cost producer. As a  
9                   result, Hynix becomes the lowest cost producer.

10                   This links directly to their behavior in the  
11                   marketplace. As others will testify to later, Hynix  
12                   is leading the charge on selling price declines. And  
13                   why not, when there is always the guarantee of a  
14                   bailout?

15                   Even Mr. Tabrizi, who is here today, Hynix's  
16                   Vice President of Marketing, said himself in an  
17                   interview with the Electronic Engineering Times, "We  
18                   won't be going bankrupt. The Korean Government won't  
19                   let us fail."

20                   And when one of the major producers or, in  
21                   this case, one of the four remaining large producers,  
22                   has that capability, it affects all of us, both in  
23                   terms of selling prices and ultimately our profits and  
24                   losses.

25                   There is no uncertainty about what has

1       caused the injury. The reason the downturn is so  
2       extended and severe is because of the subsidies. It  
3       is because of the Korean Government's direct intent to  
4       protect and grow their world share of the DRAM market  
5       regardless of the cost and those costs have been huge.  
6       There is no DRAM company today that could even  
7       remotely borrow \$16 billion during the last three  
8       years, even if they did intend to pay it back. The  
9       U.S. industry was and is still being injured and the  
10      Korean Government subsidies are the cause.

11                   Thank you for your time today.

12                   CHAIRMAN OKUN: Thank you.

13                   MR. KAPLAN: Mr. Sadler?

14                   MR. SADLER: Good morning, Madam Chairman,  
15      members of the commission and the commission staff.  
16      My name is Michael Sadler. I am Vice President of  
17      Worldwide Sales for Micron Technology. I oversee all  
18      of Micron's worldwide sales activities and have been  
19      employed by the company for over 11 years. I have  
20      more than 23 years of experience in the DRAM industry.

21                   There should be no doubt that Micron and  
22      Hynix compete head to head for the same customers and  
23      over the same type of products. Micron and Hynix sell  
24      to the same major DRAM customers and most sales of  
25      domestic products and imports are to large,

1 multinational computer equipment manufacturers.

2           While Micron seeks to distinguish itself  
3 from competitors based on superior technology and  
4 service, the commodity nature of DRAMs compels all  
5 DRAM producers to compete primarily on price.

6           The realities of the DRAM market have been  
7 well documented. The vast majority Micron's  
8 competitors, including Hynix, manufacture DRAMs that  
9 are equivalent in specifications and performance to  
10 our own. The DRAM products sold by the U.S. domestic  
11 industry and imports by Hynix are interchangeable.  
12 Hynix neither competes in a different market niche  
13 from Micron nor focuses on specialty or legacy  
14 products that are not sold by Micron.

15           Hynix, like Micron, is a qualified supplier  
16 to large and small customers located throughout the  
17 United States. This includes major OEM customers. We  
18 compete constantly with Hynix's low pricing. There is  
19 no place to hide, even with our largest traditional  
20 customers.

21           Competition against subsidized imports from  
22 Hynix has forced Micron to cut prices in order to win  
23 orders and defend our business with U.S. customers.  
24 As Senator Craig stated earlier, we have reported  
25 financial losses for 10 consecutive quarters and have

1 even had to price our products below our cost of goods  
2 sold or face the loss of valuable business. Our  
3 ability to achieve a fair market price is completely  
4 undercut as Hynix continues to offer the lowest prices  
5 in the market.

6 As one of the four major DRAM producers in  
7 the world today, Hynix is able to command a presence  
8 at virtually every major DRAM customer. This presence  
9 enables it to set a price that adversely impacts its  
10 competitors, including Micron.

11 And I'm not the only person who has observed  
12 Hynix's low pricing tactics. For example, from a 2001  
13 brokerage report issued by Credit Suisse First Boston,  
14 and I quote, "We have erased the 20 cent to 25 cent  
15 contract price premium for DRAM sales in second half  
16 '01 as we believe that Hynix will continue to sell  
17 aggressively into this market."

18 And last year, from J.P. Morgan, "We expect  
19 Hynix to continue to aggressively play on the DRAM  
20 market by selling at below market prices to maximize  
21 cash flow while reducing inventory via an expected  
22 increase in production output. As a result, we  
23 believe this news is negative for the DRAM market as  
24 well as for DRAM spot market prices."

25 Hynix's presence in the marketplace is being



1 used as leverage by our traditional PC customers to  
2 obtain lower prices. I know this because the VP of  
3 procurement at a major PC manufacturer, whom the  
4 commissioners would certainly recognize, acknowledged  
5 to me that he plans to keep Hynix in the supply base  
6 in order to take advantage of sweetheart pricing deals  
7 and use them as price leverage against the balance of  
8 his suppliers, including Micron.

9 The CEO of another of our customers, a major  
10 memory module manufacturer, confided to me that he  
11 does not rely on Hynix as a regular supplier for DRAM,  
12 but whenever they have an internal inventory  
13 accumulation, Hynix inevitably calls to offer him a  
14 deal that he cannot refuse. He takes deliver of this  
15 product and then resells it, including to our U.S. OEM  
16 customers.

17 Micron, Infineon, Samsung and Hynix are the  
18 world's major DRAM producers. We all compete for the  
19 same customers and sell essentially the same DRAM  
20 products. I know from my personal experience that we  
21 compete against Hynix at Dell, IBM, HP, Apple and all  
22 the other major customers. Our product lines are  
23 directly competitive. We sell 64 megabit, 128  
24 megabit, 256 megabit, DDR and SDRAM components and use  
25 these chips to build 128 megabyte, 256 megabyte, 512

1 megabyte and 1 gigabyte modules. Hynix sells every  
2 one of those products to our major OEM customers.

3 I hear from my sales force that Hynix  
4 regularly offers prices that are very competitive and  
5 usually lower than ours. It is the subsidies that  
6 allows Hynix to disregard the cost and profit  
7 imperatives of the DRAM industry that unsubsidized  
8 competitors like Micron are compelled to follow.

9 While falling DRAM prices and unprecedented  
10 prices have forced Micron and other unsubsidized  
11 competitors to cut costs, Hynix's subsidies have  
12 enabled it to ignore these cost and profit  
13 imperatives.

14 MR. SADLER: For example, the next  
15 significant technology shift from DDR-1 to DDR-2 will  
16 take place in 2004 and will require substantial  
17 capital investment in the assembly, test and wafer  
18 fabrication areas. This move to DDR-2 is essential to  
19 MICRON's continued existence. Subsidies to Hynix and  
20 the resulting lower of DRAM prices have prevented  
21 Micron from being able to fund this DDR-2 initiative  
22 from operating cash flow rather Micron has been forced  
23 to find the money someplace else and this meant laying  
24 off employees, shuttering a production line and  
25 discontinuing several promising development programs

1 in other technology areas.

2 Without a CVD order the future will be even  
3 more grim. The continuing subsidization of Hynix  
4 eventually will preclude the domestic industry  
5 including Micron from continuing to invest in the  
6 newest technology in a manner that will ensure our  
7 ability to compete. Just last week Hynix announced  
8 that it the first DRAM maker to validate 512 megabyte  
9 DDR 400 programs on Intel motherboards. This suggests  
10 that they are positioned to be a leading supplier to  
11 OEMs supporting the latest and greatest computing  
12 technology.

13 My company is not subsidized. My  
14 instructions are to make profitable sales. This has  
15 been impossible over the last two and a half years but  
16 I know that if I cannot turn that around soon the  
17 consequences for our domestic industry will become  
18 even more devastating. I appreciate the opportunity  
19 to appear before you again and welcome any questions  
20 that you may have.

21 CHAIRMAN OKUN: Thank you.

22 MR. KAPLAN: Professor Hausman?

23 MR. HAUSMAN: Thank you very much.

24 CHAIRMAN OKUN: Mr. Hausman, if you could  
25 get your microphone there.

1                   MR. HAUSMAN: I always forget. I'm sorry.  
2 Thank you very much. My name is Jerry Hausman. I am  
3 professor of economics at MIT. I have done academic  
4 research and consolidated in the semiconductor  
5 industry since the early 1980s. I'm pleased to be  
6 here today to discuss how imports of subsidized DRAM  
7 produced by Hynix Semiconductor have significantly  
8 depressed prices for DRAMs in the United States and  
9 worldwide. Hynix has significant ability to undersell  
10 its competitors in a row pricing overall as a result  
11 of more than \$16 billion in debt relief provided to it  
12 by the Korean Government over the past two years.

13                   The effect of these subsidies has allowed  
14 Hynix to price below cost for an extended period of  
15 time when it otherwise would have gone out of business  
16 or at a minimum would have been unable to expand its  
17 output as it did. The continued presence of Hynix in  
18 the marketplace and its ability to expand its  
19 production of DRAMs as a result of government  
20 subsidies has already harmed unsubsidized producers in  
21 the U.S. and elsewhere and threatens to cause further  
22 injury as Hynix continues to significantly expand  
23 production.

24                   Over the past several years there has been  
25 significant rationalization and consolidation in the

1 DRAM industry such that the four largest DRAM  
2 producers, Samsung, Micron, Hynix and Infineon now  
3 account for 80 percent of global DRAM sales. Hynix is  
4 the third largest producer and represents 17 percent  
5 of global DRAM supply. As you know DRAM is a  
6 commodity product and sells primarily on the basis of  
7 price. This results in a high degree of competition  
8 among suppliers.

9           These competitive conditions require  
10 producers to constantly and aggressively reduce costs.  
11 Cost-cutting measures are largely affected in three  
12 ways; (1) through the introduction of new generations  
13 of higher-density DRAMs; (2) through the introduction  
14 of smaller ciculine widths which allow DRAM makers to  
15 manufacture smaller DRAM components thus allowing more  
16 DRAMs per wafer; and (3) by shifting the larger DRAM  
17 wafers which can yield 125 percent more die per wafer  
18 than the current size.

19           These technological innovations are not  
20 optional. A company must make extremely high levels of  
21 investment in both R&D and capital expenditures each  
22 year in order to remain competitive and survive in the  
23 industry. The SIA estimates that IC companies on  
24 average invest 37 percent of their revenues each year  
25 on R&D and capital expenditures upgrades. These

1 averages tended to be even high for DRAM companies.

2           Because of the rapid technology shifts in  
3 this industry the average useful life of semiconductor  
4 equipment is only about three years and perhaps in no  
5 other industry do you have the requirement of  
6 essentially replacing your entire factory every three  
7 to five years and the cost of remaining  
8 technologically competitive is both enormous and  
9 increasing. Only a few years ago the cost of a new  
10 DRAM Fab was about \$1 billion but today costs between  
11 \$2.5 and \$3 billion. A single lithography machine  
12 used to process the 300 millimeter wafers can now cost  
13 up to \$20 million and each FAB contains dozens of  
14 these machines.

15           These significant investment requirements  
16 mean that DRAM companies have to be able to earn  
17 sufficient profits during the up cycles to be able to  
18 make the required investments. When unfair trade  
19 practices are present a producer's ability to earn  
20 enough profit to fund new investment is circumvented.  
21 That restriction on investment is precisely what is  
22 happening here.

23           As I noted in the report I prepared which is  
24 contained in Exhibit 19 of Micron's prehearing brief  
25 DRAMs are a commodity product which trade primarily on

1 the basis of price. When this is the case a  
2 competitive advantage always goes to the producer who  
3 can achieve the lowest cost by introducing new  
4 efficiencies and by increasing yields or units of  
5 DRAMs per wafer. A low-cost producer has the ability  
6 to be more competitive in setting prices.

7 Hynix agrees and has elaborated on this  
8 concept in its brief on page 78 where Hynix states and  
9 I quote, "Low production cost suppliers will be  
10 willing to price lower than higher production cost  
11 suppliers during a downturn. This statement is  
12 correct. During a period of excess supply a low-cost  
13 producer has the ability incentive to undercut the  
14 prices of competitors in order to make the sale. In  
15 fact that is exactly what we've seen in this case.

16 The very large subsidy benefits that the  
17 Department of Commerce found were provided to Hynix  
18 were in excess of \$2 billion during the 18 month  
19 period investigated. It must be remembered however  
20 that the subsidies actually received by Hynix in that  
21 period were significantly larger because it is  
22 Commerce's practice to spread the benefits from these  
23 subsidies over time to account for the longer lasting  
24 impact of the subsidies.

25 The actual bail outs provided to Hynix

1 during the same period were about \$12 billion. These  
2 subsidies had the effect of substantially reducing  
3 Hynix's cost structure. As I note in my report a  
4 company like Hynix that has a subsidized cost  
5 structure has the ability to price lower than it  
6 otherwise would have been forced to if forced to cover  
7 all of its costs as in the case with unsubsidized  
8 producers because the subsidy allows Hynix to price  
9 without respect to cost.

10 Even if you consider the conservative \$2  
11 billion calculated by Commerce for the period 2001 and  
12 the first half of 2002 this subsidy covers 47 percent  
13 of Hynix's cost of goods sold of \$4.35 billion for  
14 that same period. That's like having someone relieve  
15 you essentially of half your production costs and  
16 makes Hynix a low-cost producer in 2001 and 2002.  
17 Neither Micron nor any company can compete profitably  
18 with a company receiving a nearly 50 percent subsidy.

19 Economists have analyzed the ability of  
20 companies to "pricing without respect to cost" in the  
21 context of cost of service utility rate regulation.  
22 Economists concluded that regulated firms facing  
23 competition could price lower than otherwise because  
24 of the distortions created by the subsidies inherent  
25 in cost of service regulation. In fact telephone



1 regulation as done by the FCC and most state  
2 commissions largely change from cost of service  
3 regulation which allowed a regulated firm to cover its  
4 cost the price cap regulation in the late 1980s and  
5 '90s specifically to remove the distortion arising  
6 from "pricing without respect to cost."

7           Thus government subsidies have permitted  
8 Hynix to lower prices to economically irrational  
9 levels and to price without respect to cost and have  
10 undermined the equilibrium pricing that would have  
11 prevailed based on supply and demand conditions in the  
12 DRAM industry. Indeed my econometric estimates  
13 demonstrate that when Micron was negotiating to buy  
14 Hynix which would have ended the Korean Government  
15 subsidies in the irrational pricing DRAM prices were  
16 33 percent higher during this period in early 2002.

17           Hynix would have a number of possible  
18 reasons for pricing at levels that did not maximize  
19 profits; (1) it may have been willing to lower prices  
20 in order to maintain market share when customers were  
21 beginning to show concerns about Hynix's long-term  
22 viability. In order to maintain these customers Hynix  
23 may have engaged in deeper price cuts than usual; (2)  
24 Hynix is under significant pressure to maintain  
25 employment even if that means selling output at prices

1 that are not as high as they could be. The Korean  
2 Government subsidies finances behavior.

3 In my report I have estimated the minimum  
4 change in prices that would result from the change in  
5 supply if the Korean Government subsidies had not  
6 permitted Hynix to remain in the market. In past DRAM  
7 investigations the Commission staff has estimated a  
8 supply elasticity within the range of 0.3 to 0.5 and a  
9 demand elasticity within the range of minus 0.3 to  
10 minus 0.7. My own econometric estimates confirm these  
11 elasticity ranges. Given Hynix's 17 percent global  
12 market share if Hynix had exited the DRAM industry the  
13 price impact of Hynix's access supply in the market  
14 would have a price effect of approximately 17 to 33  
15 percent based on the Commission's prior elasticity  
16 estimates.

17 Hynix's price effect based on my econometric  
18 estimates would be about 21 percent. This assessment  
19 of the price impact only covers a likely change in  
20 prices from the removal of Hynix's access supply. It  
21 does not take into account the impact that would  
22 result from removing a competitor from the market who  
23 is able to price without regard to cost. Without this  
24 effect the baseline prices would be even higher than  
25 the result of removing or decreasing Hynix's

1       subsidized supply.

2                   The injuries arise from Hynix's subsidized  
3       supply and whether Hynix's share has increased is not  
4       the important determinative of the injury. I repeat  
5       Hynix's share of imports is not the important  
6       determinative of the injury. It is the amount of  
7       Hynix's subsidized output that depresses DRAM prices.  
8       Hynix's pricing behavior in this regard has been  
9       recognized by industry analysts as discussed in  
10      Micron's brief.

11                   Finally I want to mention my concern that  
12      subsidies to Hynix are likely to have a significant  
13      economic effect in the future. It is well-known that  
14      companies exit the DRAM business when they cannot  
15      maintain sufficient profitability to remain in the  
16      business and we have seen a number of companies  
17      representing a significant amount of capacity exit in  
18      each market downturn. This would have been Hynix's  
19      fate, too, had the Korean Government not stepped in to  
20      bail them out because international capital markets  
21      had closed to Hynix in 2001.

22                   Instead the subsidies Hynix has received are  
23      allowing that company to position itself to remain a  
24      top competitor in the future. In fact Hynix is now  
25      making significant new investments to allow it to

1 shrink its minimum line width from 0.13 microns to  
2 0.08 microns in 2005. This will lead to another  
3 significant increase in Hynix's bid output. Hynix  
4 also plans to ramp volume 300 millimeter DRAM  
5 production in 2004 which will more than double Hynix's  
6 output.

7 Absent Korean Government subsidies to Hynix  
8 I would not expect Hynix to be able to fund this new  
9 investment in 300 millimeter production along with the  
10 investment to also shrink line width of its DRAMs.  
11 The expected effect on Micron and Infineon which do  
12 not receive government subsidies for their investment  
13 will be to incur ongoing significant losses and  
14 threatens to delay or even stop new investment by  
15 Micron and Infineon. Thus in the future the continued  
16 Korean Government subsidies to Hynix will decrease the  
17 ability of Micron and Infineon to compete relative to  
18 Hynix, one of their primary competitors. Thank you.

19 CHAIRMAN OKUN: Thank you.

20 MR. KAPLAN: Thank you, Professor Hausman.

21 Ms. Byers will discuss threat.

22 MS. BYERS: Thank you and good morning,  
23 Madame Chairman and members of the Commission and  
24 Commission staff. My name is Bonnie Byers. I'm an  
25 economist at Hale and Door and I want to cover what we

1 believe are the key issues with respect to threat of  
2 injury. First the statute directs the Commission to  
3 examine the nature of the subsidies in question and  
4 whether imports are likely to increase as a result of  
5 those subsidies.

6 This threat factor is clearly established in  
7 this case. Why? First because the billions of  
8 dollars in subsidies that Commerce found were provided  
9 to Hynix are among the very sorts of subsidies that  
10 the statute points to as being the most likely to  
11 threaten future injury namely those contained in  
12 Article 6.1 of the WTO Subsidies Agreement. In fact  
13 Article 6.1 subsidies cover precisely the types of  
14 subsidies at issue in the Commerce case, very large  
15 subsidies exceeding five percent of sales, subsidies  
16 to cover operating losses and subsidies that provide  
17 debt forgiveness.

18 The Commission has considered Article 6.1  
19 subsidies in the context of threat in two Sunset  
20 Reviews, Steel Rails from Canada and Certain Steel  
21 Products. We hope you will apply the same analysis  
22 here. In addition Hynix exports 93 percent of the  
23 DRAMs they produce making the subsidies at issue here  
24 essentially de facto export subsidies which are  
25 prohibited under Article 3.1 of the Subsidies

1 Agreement. In this investigation Commerce found that  
2 the Korean Government had identified the semiconductor  
3 industry in Korea as a strategic export-oriented  
4 industry targeted to receive substantial preferential  
5 benefits and in fact Commerce found export subsidies  
6 in their case.

7 As noted earlier these subsidies to Hynix  
8 have already allowed them to nearly double its  
9 production during the POI based on public data.  
10 Moreover, Hynix's forecast to double its bit  
11 production again by 2005 based on public projects.  
12 This doubling of Hynix's output will lead to increased  
13 exports to the United States, the single largest  
14 consumer of DRAMs accounting for 40 percent of global  
15 d consumption. Here I would refer you to Confidential  
16 Charts 4 and 5 which you have before you which are  
17 based on Hynix's own data reported in their  
18 questionnaire response.

19 Third, the subsidies actually received by  
20 Hynix have not fully been accounted for because of  
21 Commerce's practice of spreading the benefits of  
22 certain subsidies over time, in this case five years.  
23 Thus the actual benefit is significantly larger than  
24 the \$2 billion countervailed during the Commerce POI  
25 and continue to benefit Hynix. In addition as Mr.

1 Kaplan pointed out Hynix received another \$4 billion  
2 bail out in December of 2002 after this case was  
3 filed.

4 This new subsidy alone is massive amounting  
5 to one and a half times Hynix's total sales in 2002.  
6 This will enable Hynix to make all the necessary  
7 investments in R&D and capital expenditures that will  
8 fund their output expansion over the remainder of this  
9 year and well into next. The U.S. industry is also  
10 threatened with future injury because the price  
11 depression resulting from Hynix's subsidized supply  
12 has had a detrimental impact on our ability to develop  
13 new generations of DRAMs.

14 Micron cannot finance the expenditures to  
15 move to next generation product from cash flow as it  
16 has done in the past and is quickly burning through  
17 its cash and retained earnings. It was forced to go  
18 into the capital markets to borrow earlier this year  
19 on extremely unfavorable terms and most analysts  
20 predict that Micron will have to borrow again in the  
21 near future. In the meantime Micron has had to keep  
22 tight controls on both capital expenditures and R&D  
23 hampering Micron's efforts to move to newer  
24 generations. Hynix by contrast is having its  
25 investments and developing next generation products

1       paid for by the Korean Government.

2                   An additional consideration for the  
3       Commission should be the provisional finding by the  
4       European Union just last week that subsidies to Hynix  
5       have injured EU producers. Last week they issued a  
6       draft definitive determination of subsidies equivalent  
7       to 34 percent of net sales and an affirmative injury  
8       finding. This is an unprecedented subsidy margin in  
9       the EU and the ITC should recognize that Hynix is only  
10      months away from being shut out of the EU market.

11                  Absent a countervailing duty order in the  
12      United States this will divert substantial volumes to  
13      the U.S. market which I think are the exact figures  
14      are in the staff report. An action is also pending in  
15      Taiwan, further testament to the global proportions of  
16      the injury caused by the subsidies to Hynix. Other  
17      threat factors are also present in this case but the  
18      specific data is confidential and cannot be discussed  
19      here. I would direct you to pages 89 and 103 of our  
20      brief.

21                  Finally I would just like to say a few words  
22      about the future of this industry. Hynix argues in  
23      its brief that the market is poised for a rebound and  
24      that there is a bright future for the domestic  
25      industry. Hynix's cheerful projections however are



1 contradicted by the terrible financial situation of  
2 the domestic industry and are simply not supported by  
3 any credible forecasts. First prices continue to fall  
4 faster than costs. Spot market prices of 256 meg DDR  
5 DRAM have fallen from 743 at the beginning of the year  
6 to 408 today, a decline of 45 percent in less than six  
7 months.

8           Likewise the spot market price for 128 meg  
9 DDR DRAM has fallen by 42 percent over that same  
10 period. While there might be some seasonal increases  
11 in demand associated with back to school PC sales this  
12 year no one in the industry is predicting a  
13 turnaround. In fact Samsung Electronics last week  
14 told Reuters that DRAM prices will not recover before  
15 the end of the year. In addition industry analysts  
16 continue to be bearish on both the outlook for the  
17 industry and on Micron.

18           While complimentary of Micron's cost-cutting  
19 measures most analysts express ongoing concern about  
20 Micron's financial position. One analyst noted on  
21 June 16th cash burn remains an issue for Micron as  
22 cash declined by \$200 million in this quarter alone.  
23 Cash profits from sales were well below capital  
24 spending. Without significant pricing help this  
25 analyst said Micron will be unable to meet its \$1

1 billion capital spending guidance for 2004 without yet  
2 another infusion of cash. This will become more  
3 difficult over time as debt now exceeds cash.

4 In another report on June 19th Freedman,  
5 Billings, Ramsey noted the ongoing risk of investing  
6 in Micron citing specifically the continuing  
7 government support of weaker industry players most  
8 notably Hynix that continue to pressure pricing. Last  
9 week S&P lowered its outlook for Micron from stable to  
10 negative citing poor prices and pressure on Micron's  
11 profitability and liquidity. This market is not in a  
12 turnaround and U.S. producers remain mired in losses.  
13 This record in our view more than merits a finding of  
14 present injury but if there is any question of that  
15 there should be none regarding the likelihood of  
16 future injury from Hynix's subsidies exports. Thank  
17 you.

18 CHAIRMAN OKUN: Thank you.

19 MR. ROSENTHAL: My name is Paul Rosenthal  
20 with the law firm of Collier Shannon Scott. I'm  
21 accompanied by my colleague, Kathleen Cannon. Madame  
22 Secretary, may I get a time check please?

23 SECRETARY ABBOTT: Nine minutes remaining.  
24 I'm sorry, 19 minutes remaining.

25 MR. ROSENTHAL: Thank you. I will keep our

1 introduction short given the limited time. I want to  
2 introduce Mr. Robert LeFort, the President of Infineon  
3 Technologies North America.

4 MR. LeFORT: Good morning, members of the  
5 Commission and Commission staff and ladies and  
6 gentlemen. My name is Robert LeFort, President of  
7 Infineon Technologies North America accompanying me  
8 today is Henry Becker, Managing Director of Infineon  
9 Technologies Richmond, Virginia. I want to talk today  
10 about the market for DRAMs in the United States.

11 When I have described the characteristics of  
12 the U.S. DRAM market to people here in Washington the  
13 observation I always hear is that it is complex here  
14 however in DRAMs like many industries that are  
15 basically commodities price is one of the most  
16 important factors in DRAM purchasing decisions.  
17 Whether you're talking about product forms, product  
18 types and densities, channels of distribution or end  
19 uses price is a critical parameter because that is  
20 something that can differentiate us from our rivals on  
21 any particular day or for any particular sale.

22 We all envy Intel who isn't in the DRAM  
23 business who can charge more for its processors  
24 because of its name. Neither we nor any of our rivals  
25 can do that because commodity DRAMs from different

1 manufacturers are highly substitutable with each  
2 other. Actually substitutability among DRAMs extends  
3 beyond the usual notion of each manufacturer's product  
4 being interchangeable with others within the same  
5 specifications or performance capabilities.

6 In certain contract sales to some key  
7 account customers there's often substitution across  
8 certain kinds of DRAMs of differing densities even  
9 DRAMs of different addressing modes and access speeds  
10 if it is planned that way at the design stage. Thus  
11 two 128 megabyte DRAMs from Hynix may be substituted  
12 for one 256 megabyte DRAM from Infineon for example  
13 assuming both are qualified with a particular  
14 customer.

15 I have been provided with a preliminary  
16 public report in this case and was encouraged to see  
17 the Commission appreciates these intertwinings. Due  
18 to these intertwining relationships among certain  
19 products subsidized imports from Hynix have been able  
20 to severely injure other participants in this market  
21 to a degree out of proportion to Hynix's U.S. market  
22 share. Artificially low prices that can be offered by  
23 someone who doesn't have to pay his own bills are  
24 capable of having a harmful impact well beyond actual  
25 sales volume or market share.

1 I'd like to give you some specific examples  
2 of how Hynix's irrational pricing can cause damage to  
3 other market participants far beyond its own sales  
4 volume. Because the DRAM market is basically a  
5 commodity market it's very competitive and we all sell  
6 to the same set of customers for most of our DRAM  
7 business. Certain contract customers demand and are  
8 granted most favored customer status. Simply put a  
9 supplier agrees that if it lowers DRAM prices for  
10 Customer A then Customer B, C and others with whom it  
11 has such agreements get that lowered price as well.

12 MFC agreements are used by personal computer  
13 brand name manufacturers which account for the largest  
14 single share of the DRAM market in the United States.  
15 This chart I have prepared shows how a low Hynix price  
16 for one DRAM product to one customer can trigger price  
17 reductions by other DRAM suppliers to other customers  
18 in the market. As you can see from the chart Supplier  
19 1 bids a price say \$10 per unit to Customer A but  
20 Hynix bids \$8 per unit to Customer A as well.  
21 Supplier 1 needs to decide whether to lose revenue by  
22 meeting the price or lose an entire sale by refusing  
23 to meet Hynix's price.

24 Supplier 1 therefore has to lower its price  
25 not only to Customer A or lose its business but also

1 to Customer B with whom it has an MFC agreement.  
2 Supplier 2 who may not have bid on Customer A's job  
3 and may have no MFC agreement with B will also need to  
4 lower its prices to B anyway to meet the competition  
5 and save its share. Let's assume Supplier 2 does have  
6 an MFC agreement with Customer C. Supplier 2 must then  
7 lower its prices not only to Customer B but to  
8 Customer C as well. Supplier 3 is then forced to  
9 chase 2's price down and so on. You can easily see  
10 how quickly a single irrational price offering between  
11 Hynix and one customer can spread through the entire  
12 DRAM market.

13 Now let's talk about blending scaling. What  
14 we at Infineon call blended scaling is another means  
15 by which Hynix's volumes and low prices have a  
16 disproportionately negative impact on our sales and  
17 profits. As I described a few minutes ago certain  
18 major types of DRAM products particularly unbuffered  
19 modules and SO modules are substitutable vertically as  
20 well as horizontally. In other words two 128 megabyte  
21 DRAM modules can be substituted for one 256 megabyte  
22 module and so forth. That is the vertical effect in  
23 the left-hand column of the chart.

24 Certain contract buyers reference prices of  
25 certain DRAM products according to this times two

1 scale. The price of one 256 megabyte module will be  
2 referenced in terms of the price of two 128 megabyte  
3 modules and so on. Prices for certain commodity  
4 modules say 128 megabyte DIMMS may be used as  
5 reference prices for not only 256 megabyte DIMMS but  
6 blended into the specialty modules that are a  
7 variation of that platform SO DIMMS for example. This  
8 is the horizontal effect shown here.

9 What we have experienced is Hynix making an  
10 aggressive bid for 128 megabyte DIMMS. This one offer  
11 pulled down our price offers not only for the basic  
12 128 megabyte DIMM but for both DIMM and SO DIMM  
13 modules of 128, 256 and 512 megabyte density as well.  
14 This blended scaling chart essentially shows how  
15 Hynix's low priced offering on one product can easily  
16 influence prices on multiple products to that same  
17 customer.

18 In conclusion I leave you with two points,  
19 (1) considerable substitutability exists among certain  
20 types of DRAMs and modules of different densities and  
21 end use specifications; (2) because of the magnifying  
22 effects of the MFC clause and blended scaling the  
23 irrational price offerings by Hynix on one proposal  
24 can quickly spread throughout this interwoven market  
25 lowering prices and profitability for all

1 participants.

2           These effects accurately describe what my  
3 company has gone through these past couple of years.  
4 Our questionnaire is proof of this and also of the  
5 effect that Korean Government subsidies have had on  
6 our own prices which have deteriorated much more than  
7 what can be attributed to normal market forces. The  
8 price deterioration has resulted in significant losses  
9 on an operating basis. The financial returns on sales  
10 of DRAMs also fail to come close to the level needed  
11 by Infineon to make the necessary investments to stay  
12 in the technology development race which is the only  
13 way to survive long term.

14           Specifically Infineon has been forced to  
15 postpone indefinitely the completion of a new facility  
16 that was to produce leading edge DRAM products  
17 utilizing the newest, largest, and therefore most  
18 cost-competitive wafer technology 300 millimeters  
19 diameter. Once completed we had projected that this  
20 project would mean an additional 1,100 jobs and \$1  
21 billion of investment at our site just 90 miles from  
22 here in Richmond, Virginia. Instead and despite  
23 steadily growing demand for DRAMs we had to mothball  
24 the whole project.

25           Today that facility is still only partially



1 completed while foreign producers close the lead  
2 Infineon once enjoyed on our 300 millimeter wafer  
3 path. We will be unable to ever complete this project  
4 if our prices and profits remain depressed due to  
5 subsidized imports in our market. That concludes my  
6 testimony. I'm happy to answer any questions you may  
7 have.

8 CHAIRMAN OKUN: Thank you.

9 MR. ROSENTHAL: Dr. Magrath?

10 DR. MAGRATH: Thank you. Good morning. I'm  
11 Patrick Magrath of Georgetown Economic Services,  
12 consultants to Infineon in this case. Accompanying me  
13 is Ms. Gina Beck also of GES.

14 Gina, we only have a few minutes so could  
15 you go right to the chart, Chart 1?

16 Later in this proceeding you will hear that  
17 Hynix is not the largest producer in Korea nor is it  
18 the largest import source for Korean product in the  
19 U.S. market and that it's market share is small. We  
20 do not agree that it is small in absolute terms and  
21 particularly within the context of market practices  
22 such as MFC, clauses, scaling and blending that Mr.  
23 LeFort just described. In Chart 1 you see that one  
24 Hynix bid on a limited volume causes dominoes to fall  
25 and create much wider impacts as the limited price

1 offering from Hynix and the low price ripples through  
2 the market. So one price can cause that.

3 In Chart 2 just this the Hynix bid over here  
4 for 120 megabyte DIMMS at \$40 can cause this due to  
5 the scaling and blending agreements on multiple  
6 products produce some common platforms. These market  
7 practices as described by Mr. LeFort help explain how  
8 even limited volumes of low-priced Hynix imports can  
9 cause a much broader impact on the domestic industry.

10 The other point we would like the Commission  
11 to consider as it relates to this volume issue is that  
12 as in all cases before you actually the specific form  
13 injury takes is dependent on the particular reaction  
14 to the unfair competition by the domestic industry.  
15 In some industries U.S. companies under attack will  
16 respond to import competition by withdrawing from that  
17 portion of the market and seeking market niches.

18 In other industries domestic competitors  
19 will stand and fight. They will not cede market share  
20 and customer accounts to import competition even if  
21 they have to slash profits and prices to do so. The  
22 U.S. DRAM industry is an extreme example of this  
23 latter stand and fight strategy and the record on the  
24 trends in domestic prices and profitability fully  
25 support this view. The domestic industry has no

1 choice really due to the nature of DRAM production.  
2 The constant and very large capital expenditures and  
3 R&D required to stay competitive mean high fixed costs  
4 which in turn mean the maintenance of high-capacity  
5 utilization in order to spread those large fixed costs  
6 over the maximum number of chips produced hence the  
7 great economic pressure in this business to maintain  
8 production and maintain sales.

9 The U.S. industry may have succeeded in  
10 limiting Hynix's growth in the POI but it only did so  
11 at the terrible cost of slashing their own prices,  
12 huge declines in prices, and the resultant large  
13 financial losses. Without governments to subsidize  
14 Micron and Infineon this strategy is ultimately a  
15 losing one. Thank you.

16 MR. ROSENTHAL: I want to reserve the  
17 balance of our time for rebuttal please.

18 CHAIRMAN OKUN: Then that completes the  
19 testimony for this panel?

20 MR. KAPLAN: Yes, it does.

21 CHAIRMAN OKUN: Okay. Well, before we begin  
22 our questions this morning let me thank all the  
23 witnesses for being here. We very much appreciate  
24 your testimony and your willingness to answer  
25 questions and for all the information that you have

1 submitted and will continue to submit throughout this  
2 investigation. We will start our questioning this  
3 morning with Commissioner Koplan. I would remind  
4 witnesses if you can just restate your name and  
5 affiliation when you answer questions. It's easier  
6 for us and for our reporter.

7 Commissioner Koplan?

8 COMMISSIONER KOPLAN: Thank you, Madame  
9 Chairman. I, too, want to thank the panel for its  
10 testimony this morning. It's very helpful. I'd like  
11 to begin by getting into the role of non-subject  
12 imports of foreign dies during the period of  
13 examination particularly in light of what is headed  
14 "Alternate Table C-1" at page C-3 of the confidential  
15 staff report dated June 12th. I note that that table  
16 was termed alternate because it preceded by five days  
17 Commerce's final determination but anticipating what  
18 it might be the computations were made in these  
19 alternate tables.

20 Of course the final determination came out  
21 on the 17th and gave I think the parties a half day to  
22 comment on what Commerce did but these tables that are  
23 termed alternate I now consider final tables for  
24 purposes of this phase of the investigation. Anyway  
25 those tables reflected that non-subject imports

1 increased very substantially and I can't get into the  
2 numbers because that's business proprietary  
3 information but I'd like you all to couple your  
4 response to my question with your answers to the  
5 arguments that are set forth at pages 104 through 106  
6 of Respondents prehearing brief at which they conclude  
7 on page 106 and this is not business proprietary that,  
8 "In light of the dominant presence of non-subject  
9 imports we submit that Micron is not able to  
10 demonstrate that the small volume of subject imports  
11 has had a significant adverse affect on the domestic  
12 industry."

13 I realize you all don't agree that these are  
14 small but I'm quoting and then they go on to say, "Are  
15 restated in terms of the statutory standard" and they  
16 cite a case that counsel well knows, Gerald Metals,  
17 "of the statutory standard given the dominant presence  
18 of non-subject imports of this commodity product  
19 Micron is not able to demonstrate why the non-subject  
20 imports do not have such a predominate effect in  
21 producing the harm to the domestic industry as to  
22 prevent the subject imports from being a material  
23 factor."

24 Now I'd like counsel to expand in the post-  
25 hearing on my question because counsel can take into

1 account the numbers that I'm referring to that I can't  
2 get into here but for purposes of the public  
3 proceeding I'd like to hear from both Mr. Appleton and  
4 Mr. LeFort as to their comments on the impact of how I  
5 should be weighing the non-subject imports presence of  
6 foreign dies in this market given what Commerce did on  
7 the 17th of June?

8 MR. APPLETON: Yes. If you don't mind, Mr.  
9 LeFort, I'll go first and follow-up?

10 It's obviously our position and it really I  
11 think is a lot less than the market share that Hynix  
12 currently has. When you look at the domino effect on  
13 pricing that occurs because of even frankly a few  
14 percentage points on the market can have an impact as  
15 to driving the price down that it doesn't take very  
16 much in order to have that happen and I think we  
17 really have to go to the motivation of what's going on  
18 in pricing as opposed to the supply that's becoming  
19 available in the marketplace from the current  
20 producers that are already in the marketplace.

21 It's the motivation as to at what price will  
22 we sell that product into the marketplace? It's  
23 really independent of the non-covered imports. It's  
24 really a very small percentage of what's being out  
25 there which in this case it could be in Hynix's case,

1 you know, we say they have 17 percent of the market.  
2 Even if it were less it would still have the same  
3 impact.

4 COMMISSIONER KOPLAN: Thank you.

5 Mr. LeFort?

6 MR. ROSENTHAL: Before I let Mr. LeFort  
7 answer I'd like to say a few words if I might. I'm  
8 Gerald Metals otherwise. A couple of key points here.  
9 As Mr. Appleton mentioned one of the reasons why we  
10 obviously disagree with the Hynix counsel's  
11 argumentation they didn't have a chance to see our  
12 presentation before they submitted their brief so I  
13 understand why they might not have gotten it  
14 immediately is the effect of pricing --

15 COMMISSIONER KOPLAN: I think I should have  
16 had him go first, Mr. Rosenthal, but go ahead and  
17 finish.

18 MR. ROSENTHAL: -- is this pernicious effect  
19 of a small volume of pricing as explained by Mr.  
20 LeFort and Dr. Magrath, that's number one. Number  
21 two, the statute doesn't talk in terms of import  
22 growth and we can't talk about what the trends are but  
23 we certainly disagree by the way with how the  
24 Respondents characterize the trends on volume. Our  
25 view is (a) the volume is significant no matter how

1 you analyze the trends; (b) as you heard from Dr.  
2 Hausman that volume however you measure it shouldn't  
3 be in the marketplace at all because Hynix should be  
4 out of business if market forces were allowed to work  
5 and if this cycle were to be like other cycles where  
6 the weakest competitors got out of the business and  
7 there was consolidation that was allowed to occur.  
8 All of the analysts who look at this have said exactly  
9 the same thing.

10 COMMISSIONER KOPLAN: Thank you.

11 Just one housekeeping chore before I turn to  
12 you, Mr. LeFort. Mr. Rosenthal reminded me of this.

13 Professor Hausman, could you submit your  
14 model and data that you used for estimating the  
15 elasticities referred to in your testimony for  
16 purposes of the post-hearing?

17 PROFESSOR HAUSMAN: Yes, I would be glad to.

18 COMMISSIONER KOPLAN: Thank you very much.

19 Go ahead, Mr. LeFort.

20 MR. LEFORT: Yes. I think in response to  
21 your question there are two basic areas to look at so  
22 one is in pure volume we say that in a near commodity  
23 market that we have that there's a substantial  
24 influence and that's had quite a bit of discussion but  
25 to really give you the extremes of the situation we



1 have on a specific from the testimony that I gave is  
2 we actually have some customers who will qualify Hynix  
3 and not even give them any business. So at zero  
4 percent market share they still influence the prices  
5 because there is still the threat that they will use  
6 that price if you don't meet it. So really at that  
7 point you can take it to the full extreme to talk  
8 about how they can influence the price even though the  
9 volume is irrelevant.

10 COMMISSIONER KOPLAN: Thank you. If I could  
11 stay with you a moment, Mr. LeFort. When you  
12 testified about the most favored customer clauses that  
13 lead to I think you used the term irrational pricing  
14 as you put it what is the strategic advantage of  
15 signing such contracts then?

16 MR. LeFORT: So first let me say just a  
17 slight correction to the question if I may.

18 COMMISSIONER KOPLAN: Sure.

19 MR. LeFORT: The irrational pricing comes  
20 first in terms of this chart but the advantages you  
21 have a market where as we say is a near commodity and  
22 you have a handful of major customers and these are  
23 now conditions for being competitive in that business  
24 and as Mr. Magrath said because of the high fixed cost  
25 in this industry you really need to be running at full

1 capacity so you really are left with one of two  
2 options. You either make a strategic decision that  
3 you will exit the business and not play by the rules  
4 in the market or you agree to play by the rules in the  
5 market and you expect that there are some fair  
6 economics at work and by being the best at what you do  
7 you can then be successful.

8 COMMISSIONER KOPLAN: Are these clauses  
9 common globally?

10 MR. LeFORT: Yes, they are.

11 CHAIRMAN OKUN: Okay. So they're not unique  
12 to this market?

13 MR. LeFORT: Correct.

14 COMMISSIONER KOPLAN: Thank you.

15 In the preliminary determination the  
16 Commission focused on bits for purposes of assessing  
17 the volume of imports because total bits are a uniform  
18 measure of the quantity of DRAM products. However we  
19 recognize that the use of bits is as a unit of  
20 measurement can present difficulties for our analysis  
21 as total bits are a function of chip density and  
22 product mix both of which have changed over the period  
23 of investigation so we do not necessarily view the  
24 increase the same as we would another type of product.

25 I'm asking the industry witnesses whether

1 you believe this is the proper approach for us to  
2 assess volume or whether you have any different  
3 suggestions, Mr. Appleton?

4 MR. APPLETON: Well, the bits is a  
5 measurement that we have used in the industry since  
6 the entire time that I've been in it for the last two  
7 decades and it really is the most reflective of the  
8 changes that go on in the industry. I don't think  
9 there's a better measurement that you can look to and  
10 the reason is that in general these bits are very  
11 common so to speak. They're the same kinds of bits  
12 even though its across density generations and wafer  
13 sizes and so forth so it's the best measurement.

14 COMMISSIONER KOPLAN: Thank you.

15 Mr. LeFort?

16 MR. LEFORT: We agree.

17 COMMISSIONER KOPLAN: Thank you. I  
18 appreciate your responses. I see my red light's about  
19 to go on so I'll wait until the next round. Thank  
20 you, Madame Chairman.

21 CHAIRMAN OKUN: Thank you. Again thank you  
22 to the witnesses. Commissioner Koplan led with some  
23 questions on none-subject imports and I think I'd like  
24 to just stay with that for a little longer if I could.

25 Mr. LeFort, you referenced that these most

1 favored customer clauses were common globally. Has  
2 the use of the most favored customer clauses and  
3 blending scaling changed during the period of  
4 investigation in any way?

5 MR. LeFORT: Yes. Because of the magnitude  
6 of the downturn the customers have had more if you  
7 will clout during the period of investigation. So  
8 they have become more aggressive at their expectations  
9 and demands of the supply base. So over the period of  
10 investigation we've gradually seen things become  
11 tougher and tougher.

12 CHAIRMAN OKUN: Okay. If I understand these  
13 and I'll probably have some more questions just about  
14 the specifics but these are used by the PC OEMs  
15 exclusively or are they used by other customers as  
16 well?

17 MR. LeFORT: I wouldn't say exclusively but  
18 I would say they're predominately used by the PC  
19 manufacturers because again that is where you have the  
20 highest concentration from a customer base.

21 CHAIRMAN OKUN: Okay. Just with respect to  
22 that I know that for both Micron and Infineon the  
23 responses in the briefs has been that the PC OEMs I  
24 think have been described as a substantial part of the  
25 market. I'm not sure if that's the exact word but I

1 just wondered for post-hearing is that something that  
2 can be broken down, counsel, in terms of end uses and  
3 in terms of where we go between PC OEMs versus other  
4 OEMs?

5 MR, APPLETON: Just to respond. I think I  
6 can give you a good idea right now.

7 CHAIRMAN OKUN: Okay.

8 MR. APPLETON: Of course we can follow-up  
9 but --

10 CHAIRMAN OKUN: Okay.

11 MR. APPLETON: -- in general when we say PC  
12 OEMs we talk about the industry as the computing  
13 industry and the computing industry is most of us  
14 think of a PC as a desktop PC but it includes  
15 notebooks like what Dr. Hausman has and it includes  
16 servers, the kinds of things that we mostly think of  
17 in computing. That typically consumes at least in the  
18 DRAM world somewhere around 85 percent of all the DRAM  
19 produced in the world goes into the computing industry  
20 and of course we can follow-up with detail and it can  
21 be broken out.

22 CHAIRMAN OKUN: Okay. That's very helpful  
23 though.

24 Mr. LeFort, would you agree with that  
25 figure?

1 MR. LeFORT: Yes.

2 CHAIRMAN OKUN: Okay.

3 All right. Then again I mean we are  
4 constrained because of so much of this record being  
5 business proprietary but I wondered if counsel or Mr.  
6 Hausman could comment on whether they would in looking  
7 at the lost sales, lost revenue, information that has  
8 been gathered by staff whether they think it's  
9 supportive of the view that these most favored  
10 customer clauses and blended scaling show an impact?  
11 Mr. Hausman, you have your --

12 MR. HAUSMAN: Yes. I'd like to make two  
13 points; (1) these type of contract provisions not only  
14 exist worldwide throughout the DRAM industry but they  
15 are a common feature of any commodity-like or very  
16 many, not any, but very many commodity-like inputs and  
17 the main reason they exist is if you're a customer and  
18 you're selling computers you're Dell or you're Gateway  
19 you are in a very highly competitive business.

20 You cannot be at a cost disadvantage  
21 compared to your competition because, you know, you've  
22 seen them advertise and it's \$895 and whatever and so  
23 they're going to require these type of contracts from  
24 their input suppliers so they will not be at a cost  
25 disadvantage and I have seen this not only in the DRAM

1 business but many, many industries I have studied as  
2 an economist 30 years at MIT.

3 The other point I'd like to make though if I  
4 could is with respect to non-subject imports. That  
5 Samsung is the biggest importer in the United States  
6 in my view is neither here nor there. Rather than  
7 Samsung it could be Motorola located in Phoenix. The  
8 real question is what would happen if Hynix had either  
9 exited the market or not expanded their imports in the  
10 United States which they approximately doubled during  
11 the POI. That's the real question.

12 I heard Mr. Porter, their counsel, say at  
13 the beginning that Micron must prove all of its  
14 financial woes are due to Hynix and in my view as an  
15 economist that's just incorrect. The real question is  
16 again if Hynix had not doubled its imports, volume of  
17 imports, the bits to the United States or if it had  
18 disappeared altogether what would we see in terms of  
19 prices and profits for the domestic industry?  
20 According to my economic analysis both would be a good  
21 deal higher. So I believe that is the correct way to  
22 look at the effect of Hynix.

23 CHAIRMAN OKUN: I do have a number of  
24 questions with relation to the nature of the subsidy  
25 but in terms of lost sales, lost revenue, on this

1 record is there anything you can say in public session  
2 in terms of whether you believe that they are  
3 supportive of the description the industry is giving  
4 of the I guess disproportionate impact of small sales?

5 MR. HAUSMAN: Yes. That is what I tried to  
6 say in my statement that if you have "irrational  
7 pricing" it ratchets down the whole industry because  
8 of these most favored nation or most favored customer-  
9 type clauses because if they go to one of your big  
10 customers and offer a lower price Hynix you have to  
11 meet it because you have to maintain your capacity  
12 utilization. Once you meet it to that big customer  
13 then all your other big customers are going to ratchet  
14 down the price to that same level. So, yes, I think  
15 it's very supportive and as I said that's how this  
16 industry and many industries work.

17 MR. KAPLAN: If I could just add one thing.  
18 We had a section in our questionnaire response I  
19 believe and then also in our brief describing some of  
20 the difficulties in developing detailed lost sale and  
21 lost revenue information. Now the problem is when you  
22 have a commodity market that moves very, very fast and  
23 a lot of sales every day this is very different from  
24 say offshore oil platforms which is the other extreme  
25 where there are two bidders and everybody knows what's



1 going on.

2 Here buyers are not necessarily going to  
3 tell Mike Sadler's salespeople who they lost to and  
4 exactly what but they know they lost and they know  
5 that there was a significant price impact. So it may  
6 be difficult to document every single lost sale and  
7 lost revenue but we have given some examples of  
8 particular OEMs where we know where the total  
9 available market called TAM has shifted from us to  
10 Hynix in our questionnaire response and I believe in  
11 our brief and also although it's a little different  
12 point I would direct your attention to Confidential  
13 Charts 1 and 2 which I think elucidate the pricing  
14 factors in this case.

15 CHAIRMAN OKUN: Okay.

16 MR. ROSENTHAL: One last point on that. You  
17 saw from the chart that you may or may not be able to  
18 identify the lost revenue from the first set of  
19 transactions. It's the ripple effect through the Fair  
20 Value Competitors 2 and 3 who you certainly won't be  
21 able to identify and pin on the original Hynix bid in  
22 the first one but you know that that pricing effect is  
23 happening for the other transactions as well.  
24 Unfortunately it's very difficult to pick up in a  
25 traditional ITC questionnaire and pin that as a lost

1 sale or lost revenue but there's unquestionably that  
2 price effect.

3 CHAIRMAN OKUN: Mr. Magrath, you had looked  
4 like you wanted to have the last word.

5 MR. MAGRATH: Yes. Paul covered the same  
6 point. In our testimony up there Competitor 2 in the  
7 MFC clauses Competitor 2 is not competing with -- he's  
8 never seen Hynix in this account but he has to drop  
9 his price because in the sale above the separate sale  
10 Competitor 1 had to meet the Hynix price and therefore  
11 was forced by these marketing agreements to offer OEM,  
12 too, a lower price. So Competitors 2 and Competitors  
13 3 have to meet those prices by other fair value  
14 competitors but it all started with the ripple effects  
15 of the low Hynix price.

16 CHAIRMAN OKUN: Okay. I appreciate all  
17 those comments on that. The other question I had  
18 related to that and again some of it may need to be  
19 confidential but in their brief for a number of pages  
20 the Respondents look at the pricing data and also do  
21 their own analysis of non-subject prices in this  
22 market. I wonder if there's anything you can say in  
23 the public setting with regard to that and obviously I  
24 would look for further briefing on that in the post-  
25 hearing brief as well?

1 Mr. Kaplan?

2 MR. KAPLAN: I think there are a few things  
3 we can --

4 CHAIRMAN OKUN: If you can just pull your  
5 mike a little bit closer.

6 MR. KAPLAN: Sure. I think there are a  
7 couple of things we can say publicly. That document  
8 which I believe is Exhibit 20 or Exhibit 21 is  
9 extremely misleading is perhaps the kindest thing I  
10 can say about it. I think I can say publicly that  
11 when the Respondents are talking about overselling  
12 they use one denominator. When they're talking about  
13 underselling they use another denominator. They also  
14 have left out certain sales in their comparison. They  
15 simply are not taking account in the analysis.

16 They don't use the ITC method in terms of  
17 how you look at the average price during a month and  
18 there are a lot of other problems with that data in  
19 terms of what they classify as subject imports and  
20 what they classify as non-subject imports and we would  
21 be very happy to provide a full confidential analysis.

22 CHAIRMAN OKUN: Okay. My red light's come  
23 on but for purposes of completing, Mr. Rosenthal or  
24 Mr. Magrath, did you have anything?

25 MR. ROSENTHAL: We agree with what Mr.

1 Kaplan said and we'll comment in our post-hearing  
2 brief.

3 CHAIRMAN OKUN: Okay. Thank you very much.  
4 Vice Chairman Hillman?

5 VICE CHAIRMAN HILLMAN: Well, thank you. I  
6 would join my colleagues in welcoming you here and  
7 thanking you for the tremendous amount of information  
8 that was provided in the pre-hearing briefs. It's  
9 extremely helpful to us. I guess if I can maybe just  
10 piggyback a little bit more on this non-subject issue  
11 just to make sure I understand a couple of things.  
12 One is if we look at the data sets in front of us one  
13 of the things that's striking at least to me is the  
14 degree to which Samsung increased its market share. I  
15 mean over ten percentage points in this market. If  
16 it's really Hynix that's, you know, the price leader  
17 in your view how is it that Samsung gained so much  
18 market share?

19 MR. APPLETON: If I could respond to part of  
20 that question then maybe others could comment on that.  
21 While it is true that Samsung has increased, you know,  
22 their imports I think there's something important here  
23 to note about Samsung which you will get from  
24 Samsung's own public data. That a significant  
25 percentage of their DRAM production is in areas that

1 none of us produce Hynix does not produce it, Micron  
2 does not produce it nor does Infineon.

3 In particular if you think of what they call  
4 RD RAM none of us produce that product and Samsung  
5 over the time period ended up being the only company  
6 that brought that to market. All of that data still  
7 is included in these bits as Commissioner Koplan  
8 pointed out the RAM DRAM is included in this bit  
9 calculation that goes on as we look at the import  
10 data. Another example would be graphics DRAM of which  
11 we don't produce and as a result I would just say for  
12 that particular piece of it we need to be somewhat  
13 careful as to the impact that that has on the total  
14 change that Samsung's had in their business.

15 VICE CHAIRMAN HILLMAN: Okay.

16 Mr. LeFort?

17 MR. LEFORT: Yes. Just obviously agree with  
18 what Mr. Appleton said. In addition to that let's not  
19 forget that during that period there was also still  
20 consolidation of other players who didn't get any  
21 subsidies and couldn't survive in the market so  
22 Samsung was able to pick up some of that and as we've  
23 always said that what Hynix has caused is not by them  
24 taking over the market but by them setting a price  
25 that everybody has to meet in order to increase your

1 market share. So you can still grow your market share  
2 but you're going to have to do it at the price that's  
3 set in the market by the lowest priced guy which in  
4 this case is Hynix because of the subsidies.

5 VICE CHAIRMAN HILLMAN: Okay.

6 Mr. Sadler, you wanted to add something?

7 MR. SADLER: I was just going to add  
8 something along the lines of what Mr. LeFort was  
9 stating in that taking market share or increasing  
10 market share there's really not much of a mystery to  
11 it. What's typically required is to meet the price  
12 that's being offered by the most aggressive  
13 participant in the marketplace. As I stated earlier  
14 and I'll state again Hynix is typically that  
15 aggressive player. So what the typical scenario is  
16 that Hynix will set the low price in the market and  
17 then it's up to the rest of the participants to either  
18 meet that price and gain or hold market share or not  
19 meet it and give up business.

20 VICE CHAIRMAN HILLMAN: Okay. I guess I  
21 mean a couple of things. Obviously it's hard for us  
22 when we're looking at again an increase in share of,  
23 you know, Samsung and Micron and Infineon and Nanya  
24 gaining share while the Japanese and Hynix are losing  
25 share, you know, and yet you're saying, you know, it'

1 Hynix that's driving the price. I just want to make  
2 sure I'm understanding. You're saying, okay, Hynix is  
3 offering this but at the end of the day they're not  
4 actually winning that sale because everybody else is  
5 agreeing to come down to it. That's what I'm hearing  
6 your testimony is that correct?

7 MR. SADLER: They are winning sales. They  
8 are not necessarily winning them at extremely large  
9 market shares but they are winning sales and whatever  
10 the market share is it's significant enough to enable  
11 them to hold a qualification position at each of these  
12 major customers and essentially drive the most  
13 aggressive market price.

14 VICE CHAIRMAN HILLMAN: Okay.

15 I guess, Mr. LeFort, I think it would be  
16 helpful at least to me in the post-hearing you can  
17 provide some specific examples and again I'm not  
18 looking for every sale I'm just looking for some  
19 examples that would help me understand how this most  
20 favored customer clause in contracts and I guess the  
21 same also to Micron have caused you to lower prices to  
22 particular purchasers. I'm just trying to make sure I  
23 understand kind of how it actually in fact worked in  
24 terms of your contract. So if you can submit some  
25 examples of particular instances of it I think that

1 would be very helpful.

2                   Then on this FMS clauses you said earlier,  
3 Mr. Appleton, in response to Chairman Okun that about  
4 85 percent of DRAMs are sold to the computing  
5 industry. Help me understand what portion of your  
6 contracts would have these FMC-type clauses. Do all  
7 of them to the computer industry have them or what  
8 portion of your contracts would typically have this  
9 type of a clause in it?

10                   MR. SADLER: I think we can address that  
11 specifically in the post-hearing brief because it is  
12 confidential but there is some percentage of that or  
13 some piece of that 85 percent would be represented,  
14 covered, under these MFC or most favored customer  
15 agreements.

16                   MR. APPLETON: Just one other comment I want  
17 to quickly get out if I can, Commissioner. On the  
18 issue about pricing and the knowledge of pricing  
19 because the question is proving particular examples of  
20 what the pricing is and how that impacted our sales.  
21 I think it's worth noting that however it happens  
22 whatever the lowest price being offered our industry  
23 you can get a daily published number of the selling  
24 price of a particular configuration of DRAM from the  
25 newspaper.



1           Because what happens is that these analysts  
2           and the people that track it call and talk to the  
3           customers and as a result they take that information  
4           they publish it and then that gives the entire  
5           industry the knowledge of what the lowest price is if  
6           you will at that time of which we're all driven to try  
7           to meet. So it's not even particular to a customer  
8           transaction it actually gets published quite often and  
9           we have to deal with that.

10           MR. KAPLAN: Could I respond to your --

11           VICE CHAIRMAN HILLMAN: Yes --

12           MR. KAPLAN: -- question briefly?

13           VICE CHAIRMAN HILLMAN: -- Mr. Kaplan.

14           MR. KAPLAN: Again I draw your attention to  
15           Confidential Charts 1 and 2 on the pricing issues  
16           which I think are very relevant here. I'd also say  
17           that some of the numbers regarding share and changes  
18           in share I'm sure that you've looked at it but the  
19           staff report is not exactly the same as some of the  
20           data in Respondents brief and I think that's very  
21           important to focus on the staff report.

22           I'd also say the real question here is  
23           should Hynix be there? Hynix has gotten as we've said  
24           \$16 billion of subsidies over the last few years.  
25           They would not be in this market at all if it were not

1 for those subsidies and their continued existence is a  
2 cause of injury to us. I think we recognize of course  
3 that there are other players in the market but they  
4 are one of the four big players. They are one of the  
5 four factors in this market, a vast majority of every  
6 sale we try to make and that permits them to be a  
7 cause of injury.

8 You recently recognized in the Silicon Metal  
9 from Russia case that on all this subject import issue  
10 you don't have to conclude that Hynix in this example  
11 is the only cause of injury you have to conclude they  
12 are a cause of injury and I think we can reach that  
13 conclusion.

14 VICE CHAIRMAN HILLMAN: Your comment  
15 actually raises two questions one I hope a relatively  
16 quick one which is you all have cited different  
17 numbers for these global market share numbers. You've  
18 cited the Dios and Associates, I'm sorry if I'm not  
19 saying it right --

20 MR. KAPLAN; Yes, that's correct.

21 VICE CHAIRMAN HILLMAN: -- numbers as  
22 opposed to Hynix citing Dataquest and they're  
23 relatively different particularly on this issue o  
24 Hynix's market share. So sort of two questions here  
25 one is, you know, kind of what's the difference? Why

1 should I have more faith in one versus the other?

2 To Professor Hausman, I mean your model very  
3 much rests as I understand it on using the 17 percent  
4 market share figure for Hynix as an input to how  
5 you're looking at your model. If I look instead at  
6 the Dataquest numbers, you know, the market share for  
7 Hynix would be more like 12 percent as opposed to 17.  
8 So I'm trying to understand both why I should use one  
9 set of numbers over another and how different would  
10 the results be in a model if Hynix's market share were  
11 to be based on this Dataquest number which would put  
12 it down considerably from the number that I understand  
13 you had used in your model that came from this Dios  
14 figures.

15 MR. KAPLAN: Could I answer the first part -  
16 -

17 VICE CHAIRMAN HILLMAN: Sure.

18 Mr. KAPLAN: -- of your question? I think  
19 it's a very interesting answer. The Dios numbers are  
20 quantity, bits. The Dataquest numbers are value,  
21 prices. I think it's very interesting that the price  
22 share and the value is so much lower than the bid  
23 share. That's the difference between those two  
24 numbers. The 17 percent. the Dios number and the  
25 Dataquest number which is around 12 percent that's

1 based on value not bits.

2 VICE CHAIRMAN HILLMAN: Okay. But they're  
3 all working off the same database of numbers  
4 typically? I mean you're saying one is just using the  
5 value numbers as opposed to the bit numbers?

6 MR. KAPLAN: Sales numbers.

7 VICE CHAIRMAN HILLMAN: Okay.

8 MR. KAPLAN: The sales prices bring down the  
9 market share of Hynix as opposed to using the actual  
10 quantity which they're selling.

11 VICE CHAIRMAN HILLMAN: Okay. I'm just  
12 trying to make sure though that the input into both of  
13 those data sources are not looking at it's not an  
14 issue of who's reporting data to them is my point. I  
15 mean obviously we see a lot of data sets in which the  
16 value of the data really depends on whether you got  
17 data from everybody or whether you only got it from,  
18 you know, certain companies and not others. That's  
19 what I'm trying to make sure I understand.

20 MR. APPLETON: If I can there are several  
21 research groups that report on this industry. There's  
22 Dataquest, there's the Dios, there's Instat, there's a  
23 few others, Semico. Typically there's an organization  
24 that is called the World Physics Trade Organization --

25 VICE CHAIRMAN HILLMAN: Yes.

1 MR. APPLETON: -- and of course it's  
2 supported by the SIA usually they collect up their  
3 database from everybody that's participating in the  
4 market and then supply that to these groups but that's  
5 not to say they don't message it or change it somehow  
6 but in general there is only one single point of  
7 collection which is the WSTS.

8 VICE CHAIRMAN HILLMAN: Okay.

9 Since the red light is on I will come back  
10 to you, Professor Hausman in terms of whether it would  
11 have made a material difference if the market share  
12 number you had used had been smaller. Since the red  
13 light is on I will come back to that --

14 MR. HAUSMAN: Okay.

15 VICE CHAIRMAN HILLMAN: -- in the next  
16 round. Thank you.

17 CHAIRMAN OKUN: Unless his answer was going  
18 to be short like no.

19 MR. HAUSMAN: No. What I was going to say  
20 is the share, the value share, is less than the  
21 quantity share that means their average price is  
22 significantly lower.

23 VICE CHAIRMAN HILLMAN: That I understand.  
24 It was the implications for the model that --

25 COMMISSIONER KOPLAN: It's my light.

1                   CHAIRMAN OKUN: Make sure Commissioner  
2 Koplan gets his full time.

3                   COMMISSIONER KOPLAN: I appreciate that very  
4 brief response. I didn't know where you were going.  
5 Thank you.

6                   This is for Mr. LeFort and Mr. Appleton.  
7 I'm trying to understand this. Given the power of  
8 most favored customer clauses agreements to transmit  
9 price signals globally do Hynix's sales or anyone  
10 else's sales need to actually enter the U.S. market to  
11 have a major effect on U.S. pricing and would the  
12 imposition of countervailing duties change this  
13 mechanism for Hynix's pricing?

14                  MR. APPLETON: Okay. I'll start very  
15 quickly. I think it's important to note that first of  
16 all the activity in the U.S. in fact is very important  
17 and it's related to the customer leverage.

18                  COMMISSIONER KOPLAN: I'm not saying that it  
19 isn't I'm just trying to understand because this is a  
20 global practice.

21                  MR. APPLETON: Yes, if I can I think I'll  
22 get to the --

23                  COMMISSIONER KOPLAN: Yes.

24                  MR. APPLETON: -- I'll try to --

25                  COMMISSIONER KOPLAN: Yes.

1                   MR. APPLETON: -- get to it quickly. I  
2 think the criteria is that in order for us to do  
3 business with Dell in the U.S. or some other company  
4 that's in the U.S. that really essentially they do not  
5 want to change their behavior just because a company  
6 happens to have an order entered on this particular  
7 case as an example. But in other words it will impact  
8 the U.S. market because they're not going to make an  
9 exception just because now this customer says, well, I  
10 can supply it to you over in Asia or I can supply it  
11 to you in China or some other company.

12                   At the end of the day there are several  
13 producers in this industry and we have equivalent  
14 products, commodity products, and as a result they're  
15 not going to want to change their behavior at all. So  
16 the fact that somehow that Hynix is then presented  
17 with the problem if there's an order in place and the  
18 impact it would have on the market it absolutely will  
19 have an impact on the market because the customer  
20 isn't going to change the way that they're doing  
21 business just because one of the suppliers happened to  
22 have an issue on how they import into the market.

23                   COMMISSIONER KOPLAN: Thank you.

24                   Mr. LeFort?

25                   MR. LEFORT: Yes. So as you well know we

1 also are bringing the case forward in Europe as well  
2 as in Taiwan because we certainly are nervous that  
3 because of the global market that it's not enough to  
4 just do it in the U.S. but certainly we would not want  
5 to give the impression that either a decision should  
6 be made because there might be some convenient way  
7 around it so that we don't make the decision; and (2)  
8 that this decision would not have a dramatic impact.  
9 In fact to be very honest with you in the last two  
10 weeks since the Commerce Department has made their  
11 announcement we've already seen some stabilizing in  
12 prices in the market. So we see that just from the  
13 U.S. threat that has already brought a little bit more  
14 rationality to the market.

15 COMMISSIONER KOPLAN: Let me just stay with  
16 that if I could for a second. Ms. Byers indicated I  
17 think in her direct testimony that as far as the  
18 European case is concerned something occurred last  
19 week, a final draft determination. That I take it is  
20 something beyond the preliminary determination that  
21 occurred in April?

22 MS. BYERS: That's correct.

23 COMMISSIONER KOPLAN: It is correct.

24 MS. BYERS: Yes.

25 COMMISSIONER KOPLAN: So that's circulating



1 prior to a final determination coming out in August?

2 MS. BYERS: Their procedures over there are  
3 slightly different than they are here. Yes, they did  
4 issue last week a draft definitive determination in  
5 which they concluded that there was injury to the  
6 domestic industry in Europe and that there was a duty  
7 that was slightly higher than that in the prelim of  
8 about 34.7 percent.

9 COMMISSIONER KOPLAN: Is that a public  
10 document?

11 MS. BYERS: Yes, it is.

12 COMMISSIONER KOPLAN: Could it be submitted?

13 MS. BYERS: Yes.

14 COMMISSIONER KOPLAN: I'd be curious.

15 MS. BYERS: We're getting it now and we'll  
16 put it on the record.

17 COMMISSIONER KOPLAN: Thank you. If I could  
18 turn to another area. In the prehearing brief  
19 Petitioners took the position that Hynix Semiconductor  
20 Manufacturing America, HSMA, is a related party that  
21 should be excluded from the domestic industry. In  
22 making our finding in our preliminary determination  
23 not to exclude HSMA we took into account the fact that  
24 it has a wafer FAB facility in Eugene, Oregon and has  
25 had it since 1998, took into account the percent of

1 domestic production at that facility, its capacity,  
2 the amount processed, the value of its fixed assets,  
3 its investments in that facility which I consider to  
4 be substantial, its capital expenditures and its  
5 operating margins and ratio to net sales.

6 I can't get into the specific numbers here  
7 because that is business proprietary but I also note  
8 Respondents claim at page six of their brief that HSMA  
9 is reducing rather than expanding its DRAM capacity at  
10 its Korean facilities and has demonstrated its intent  
11 allegedly to dedicate more and more of its Oregon  
12 fabrication facility to the U.S. market. As of now  
13 I'm still inclined not to exclude them from the  
14 domestic industry but I consider it an open issue and  
15 I'd like to hear any further comment that either  
16 counsel or for that matter the industry witnesses  
17 might want to make on this issue for me now.

18 Mr. Appleton, did you want to comment?

19 MR. KAPLAN; If I could try to weave around  
20 the sides of the specific data a little bit.

21 COMMISSIONER KOPLAN: Yes.

22 MR. KAPLAN: I do think that some of the  
23 financial data was resubmitted late last week with  
24 respect to that plant which I think is important in  
25 terms of what the real picture there is but putting

1 that aside I think that just looking at the financial  
2 data in the two operations, Korea and the U.S., is a  
3 very interesting exercise and we'll try to describe it  
4 in more detail in our post-hearing brief.

5 I'd also comment very briefly if I could  
6 that the position you just described does seem to  
7 contradict in some ways the position that Senator  
8 Wyden and Representative Defasio took with respect to  
9 the impact of the possible order on the plant so I  
10 think that it's a very complicated question as  
11 Commissioner Hillman raised what the effect of that  
12 order would be on the U.S. operations o Hynix.

13 CHAIRMAN OKUN: Thank you for that.

14 Mr. Rosenthal, did you want to add anything  
15 to that?

16 MR. ROSENTHAL: This is a closed question.  
17 I'm tempted for the first time this morning to  
18 disagree with Mr. Kaplan and I honestly think that it  
19 should not make a difference in the outcome of the  
20 case and in fact when I heard Senator Wyden's  
21 presentation this morning not only did I have a  
22 different conclusion than he did with respect to the  
23 outcome of the case and how it might help his  
24 constituents in Oregon but he made a very strong,  
25 compelling argument for how the Hynix facility might

1 be seen as a U.S. producer. I think the ultimate  
2 question that you have to decide is forget the  
3 relationship of whether excluding the data is somehow  
4 going to skew the database and from where we sit today  
5 I would say probably not but we will expand that in  
6 our post-hearing brief.

7 COMMISSIONER KOPLAN: Thank you very much  
8 and I'll look forward to that.

9 Mr. Appleton, I wanted to come back to  
10 something you said way back in your direct testimony.  
11 You were talking about I guess it was in 2001 when you  
12 were negotiating to try and acquire Hynix and my  
13 question is had you been successful what would have  
14 been the fate of those subsidies?

15 MR. APPLETON: Well, first of all I think  
16 it's probably good to have it on the record that we  
17 were approached by Hynix.

18 COMMISSIONER KOPLAN: Okay.

19 MR. APPLETON: In fact I was visited in  
20 Boise, Idaho and asked to consider if we would acquire  
21 them and so of course, you know, as a businessperson I  
22 wanted to take a look and see what might occur then  
23 obviously the record, the public record, is that we  
24 negotiated to acquire the assets. I found it really  
25 interesting that during, and I don't want to go into

1 anything confidential about the negotiations, but  
2 first of all as part of the negotiations which was on  
3 the public record we were actually trying to get  
4 financing in order to improve the technology that was  
5 in the facilities that we would be acquiring and that  
6 was an incredible struggle to even get the Korean  
7 banks to consider on market terms to loan us money.

8           There's no question that the subsidies would  
9 have not been available to us. We could not even get  
10 normal market term financing at the end of the day out  
11 of the Korean bank so it absolutely would not have  
12 been available and in fact it was never a component of  
13 the transaction that we were negotiating for.

14           COMMISSIONER KOPLAN: Thank you. That was  
15 just open as far as I was concerned as a question and  
16 I'm going to close the loop on that with you. I  
17 appreciate that.

18           I see my red light's about to come on,  
19 Madame Chairman, so I'll save the rest of my questions  
20 for the next round. Thank you.

21           CHAIRMAN OKUN: Thank you.

22           My next question I'm going to direct at  
23 counsel with all apologies to the industry witnesses  
24 because I think it's going to be about the subsidy  
25 question and I think as a businessman I can understand

1 your testimony. If you have a competitor whose been  
2 found to have a countervailing subsidy what your  
3 testimony might be but the question I have is a legal  
4 one which is how do we take it into account?

5 Mr. Kaplan, in your brief you argue it and  
6 have said some things here today which would say to me  
7 that you want us to use it to look at the subsidy when  
8 we evaluate present material injury. Mr. Rosenthal,  
9 your brief I think focuses much more on the threat  
10 factor and the specific threat factor that goes to the  
11 nature of the subsidy. I wondered (1) if there's any  
12 disagreement among you with regard to present; and  
13 then (2) if you could, Mr. Kaplan, help me or point me  
14 to what you think the Commission could look to in  
15 support of your argument that the actual subsidy  
16 itself because I mean it's not even as I read your  
17 brief subsidies imports it's the subsidy itself that  
18 is given Hynix the ability to be the low-cost producer  
19 which is having these ripple effects in the U.S.  
20 market and therefore causing injury?

21 So if I could start with you, Mr. Kaplan,  
22 and then Mr. Rosenthal, if you could add on that as  
23 well.

24 MR. KAPLAN: Well, I think the two most  
25 important factors in terms of what you should look at

1 are really the volume and the pricing and those are  
2 both factors you have to look at in terms of your  
3 causation analysis and I think that the volume which  
4 does exist is a direct result of that subsidy. I  
5 don't see any really rational way to diaggregate  
6 looking at that volume of imports from the subsidies  
7 because without that volume there wouldn't be the  
8 injury and without that subsidy there wouldn't be the  
9 volume.

10 I think it follows very, very directly from  
11 the subsidized practices that are at issue in this  
12 case. I'd also say it follows directly that the  
13 pricing which again I'll direct you to those  
14 confidential charts the impact on the pricing is  
15 directly related to the subsidization and that's the  
16 way I think you should analyze that.

17 CHAIRMAN OKUN: Okay.

18 Mr. Rosenthal?

19 MR. ROSENTHAL: Ms. Cannon had something  
20 here.

21 CHAIRMAN OKUN: Okay.

22 MS. CANNON: Kathleen Cannon, Collier  
23 Shannon. We agree with Micron's position on this. We  
24 did not mean to suggest that we thought that the  
25 subsidy was only relevant in the threat context.

1 Obviously there's a specific statutory factor in the  
2 threat context that requires you to look at the nature  
3 of the subsidy and I think that's very relevant to  
4 your analysis here as Ms. Byers discussed in more  
5 detail in her testimony and as we explained in our  
6 brief.

7           But in the context of the injury analysis  
8 certainly the nature of the subsidy and the way it's  
9 affected the company is critical as Mr. Kaplan says  
10 because it is affecting the volume and the pricing of  
11 the company. I mean there's the statute that tells  
12 you in the injury context to look at the magnitude for  
13 example of margins and I think that you can take into  
14 account the magnitude of the subsidy here similarly  
15 because it is so massive that's certainly a present  
16 injury analysis if you will.

17           But I think the more important part is  
18 simply that you're looking at whether the subject  
19 imports which are unfairly traded, here the Hynix  
20 imports, are cause of the injury and when you take  
21 that into account you want to look at, you know,  
22 what's going on with those imports and why were they  
23 able to do what they were able to do? Why were they  
24 able to manifest the prices that you're seeing here?  
25 The subsidies is critical to consider the massive



1 nature of the subsidy and the ongoing nature of the  
2 subsidy when you're analyzing both present injury and  
3 threat of injury.

4 MR. ROSENTHAL: One last point here. One of  
5 the things that makes this case interesting, unusual  
6 if you will, is the massive amounts of the subsidies  
7 and the clear record that indicates but for these  
8 subsidies Hynix would be out of business. We would  
9 not have this company in business. Now how you  
10 analyze this looking at the statutory factors is fun  
11 actually because, you know, you talk about volume.  
12 You could make an argument that there's a total volume  
13 effect as Dr. Hausman says but for these subsidies  
14 there would be no volume from Hynix, but for these  
15 subsidies the prices would be much higher than Hynix  
16 is offering and the whole marketplace would be  
17 enjoying.

18 So you rarely get a case where the subsidies  
19 are this high and the very existence of the foreign  
20 producer is at stake. In the other steel cases  
21 between subsidies then maybe they would have survived,  
22 maybe they would have not invested, this one is a very  
23 black and white case. We're talking about a company  
24 that should not be here all things being equal if the  
25 marketplace were allowed to work and that's why it's

1 an interesting analysis from a strictly looking at the  
2 subsidies and looking at the nature of the subsidies.

3 CHAIRMAN OKUN: Okay.

4 I just have a couple of more questions on  
5 that one is then is your, Ms. Cannon, you talked about  
6 looking at the margin. I mean is that where you hang  
7 your hook or is it on the other economic factors again  
8 in the present injury context? Where do you get to  
9 look? Where do we get to look at this or evaluate it?

10 MS. CANNON: I think you have to look at  
11 both. I mean I think you do have to look at the  
12 massive nature of the subsidy. The magnitude of the  
13 subsidy is so large in this case quite high as  
14 compared to most of the subsidy cases you've seen very  
15 recent subsidies that have been poured in that are  
16 very disproportionate to the sales as you heard  
17 testimony earlier relating to the magnitude of the  
18 subsidies to the magnitude of the sales of Hynix and  
19 you have to take that into account.

20 But I think you also are within your  
21 discretion to take into account what was going on  
22 here, the debt forgiveness that was going on, the  
23 constant bail out that was going on, that kept the  
24 company alive that shouldn't have been alive. I don't  
25 think that there's anything that precludes you from

1 considering in terms of looking at the imports how  
2 this all came about. I think that is an important  
3 part of your analysis as well.

4 CHAIRMAN OKUN: Okay.

5 Because, Mr. Kaplan, it also struck me that  
6 there are really two things you were asking one was,  
7 you know, this but for the subsidy what would be going  
8 on in the market but that also part of your argument  
9 went to the worldwide -- if this is a global  
10 marketplace which Respondents will make this afternoon  
11 and a world price that your response as I saw it in  
12 the brief was to say, well, we agree and of course,  
13 Mr. Appleton, has to look forward could probably  
14 comment better on this, you know, what's happening in  
15 the marketplace you said, yes, we agree with that but  
16 it's because Hynix has these subsidies that it's  
17 therefore affecting the global price which is  
18 affecting the U.S. price. I think that that is  
19 actually, you know, something I'm also trying to  
20 figure out how does the statute get us to that if it  
21 does?

22 MR. KAPLAN: Well, I think there are a  
23 number of factors. I certainly agree with Ms. Cannon  
24 that the size of the subsidy is very important and the  
25 nature of it and that is a factor you can take into

1 account. On the specific question regarding the  
2 globalization and the like we do agree it's a global  
3 market. What you have here though is a U.S. market  
4 which we under the countervailing duty law obviously  
5 have to look at and decide is there injury as a result  
6 of these subsidies and these imports and the pricing  
7 and all the rest?

8           The U.S. market is still the largest market  
9 for DRAMs in the world and it's not independent of the  
10 global market. The fact that the subsidies and the  
11 continued existence of Hynix are bringing down the  
12 world market price does not mean they're not bringing  
13 down the U.S. price or they're not causing injury  
14 here. The entire world market price and the entire  
15 world market for DRAMs is impacted by these enormous  
16 subsidies which are larger than the total sales of  
17 DRAMs in the world basically.

18           What you have is a direct impact in the U.S.  
19 market which is the largest market but it doesn't stop  
20 at our borders. It goes to Europe where there's a  
21 case, it goes to Taiwan where there's may be a case in  
22 the future. They've said that they're going to do a  
23 case. So we have to first look at the impact in the  
24 U.S. The imports that are coming in in effect are  
25 causing that impact and then we have to consider that

1 this is part of a worldwide phenomenon but that is not  
2 I don't think a necessary part of your entire  
3 analysis. The important thing is what's going on in  
4 the United States and it's having a very significant  
5 impact on the United States.

6 CHAIRMAN OKUN: Okay. Well, I appreciate  
7 all these comments. I encourage you, when you making  
8 these arguments for post-hearing to address that. I  
9 mean, I have been trying to go back through Commission  
10 decisions to determine where I think we have evaluated  
11 that.

12 There is an old lumber decision where none  
13 of the current commissioners were on. That particular  
14 lumber case where it was talked about by at least some  
15 of the commissioners in the present injury context  
16 that the Canadian subsidy in that instance, but I  
17 would encourage you to, if there is anything else you  
18 can point us to as well.

19 And I see my red light is about to come on  
20 so I will turn to Vice Chairman Hillman.

21 VICE CHAIRMAN HILLMAN: Thank you. I guess  
22 I would second the Chairman's request because I have,  
23 you know, a lot of the same kind of questions. As I  
24 listened to Professor Hausman sort of stating that,  
25 you know, Hynix's U.S. market share is not what is

1       depressing prices.  Rather it's Hynix's subsidized  
2       outputs.  And I am trying to kind of square that.  I  
3       understand the testimony.  I am trying to square that  
4       again with the statutory, you know, requirements that  
5       injury be caused by the volume and price effects of  
6       imports into the U.S.  I mean, that is what the  
7       statute says.

8                 So I would share the Chairman's request that  
9       if there is a sort of precedent, if you want to help  
10      us try to understand how it is that we are fitting,  
11      you know, these arguments about the subsidies into,  
12      you know, a statutory requirement to look at the  
13      volume and price effects of, you know, imports into  
14      the U.S. market.

15                I mean, it goes both to the subsidy issue  
16      and generally to this trying to understand how we take  
17      into account -- you know, again, you spoke a lot about  
18      it, Mr. Kaplan, in your response to the Chairman this  
19      issue of, you know, assessing kind of the regional  
20      impact.  I mean, the impact on the U.S. market of, you  
21      know, imports of Korean product into the U.S. market  
22      in the context of this global marketplace.

23                So, you know, both of those issues I am also  
24      looking for kind of precedent or other things that you  
25      would point us to in terms of how we should do this

1 kind of analysis on both of those fronts. More, you  
2 know, kind of anything you want to add to the post-  
3 hearing on that topic.

4 MR. KAPLAN: I would just quickly mention  
5 the ferrovanadium case which discusses the fact that  
6 there are world market prices for this, and that the  
7 impact in the United States is in some way part of the  
8 impact that's going on throughout the entire world as  
9 a result of the pricing that is going on there.

10 VICE CHAIRMAN HILLMAN: Okay. And then I  
11 guess if I can come back to some extent to this  
12 pricing issue.

13 Professor Hausman, at the end of my  
14 questioning I had asked, you know, whether it would  
15 make a material difference. If we were to decide, and  
16 I understand now the difference in the data, that we  
17 are looking at data that would have Hynix's market  
18 share more in the 12 percent range, you know, if we  
19 were to decide that would it materially affect your  
20 analysis?

21 MR. HAUSMAN: No, it wouldn't for the  
22 following reason. The smaller share, as you heard, is  
23 a value share, and that is price times quantity. I  
24 was only looking at price. So if you actually  
25 refitted my model and looked at its affect on price

1 times quantity, the percentage change would actually  
2 be greater than I found for price alone.

3 VICE CHAIRMAN HILLMAN: Okay. No, that  
4 makes sense. Thank you.

5 Going again to this price issue, you have  
6 all comments on Hynix being the irrational pricer or,  
7 you know, the one that is driving down the prices. I  
8 guess I would ask counsel, since I think it involves  
9 confidential information, to comment on what the  
10 purchaser questionnaires say to us about who is the  
11 price leader in the U.S. market.

12 I would ask in your post-hearing brief to  
13 try to help me look at, you know, again, what does our  
14 purchaser questionnaires tell us about what they are  
15 saying on price leadership versus the testimony that  
16 we have heard today about Hynix.

17 And then if I could go also to trying to  
18 make sure I understanding the pricing data that we  
19 have in our record. We have priced, as I think you  
20 know, eight different products. If I look at them,  
21 the prices of all of them have clearly declined over  
22 the POI, but by varying amounts.

23 And then if I look within the data, you  
24 know, we price the products to PC OEMs, to other OEMs  
25 and to non-OEMs, and again I see big differences both



1 across the products in terms of what happened to them,  
2 and as between PC OEMs, other OEMs, and non-OEMs.

3 So I guess I need some help as to, you know,  
4 why do I -- what accounts for these differences that  
5 we see across these different products, and then  
6 across the different end users? Why do the prices  
7 move differently?

8 MR. KAPLAN: Let me make just one point if I  
9 could, trying again to weave around the sides of  
10 anything confidential.

11 VICE CHAIRMAN HILLMAN: Right.

12 MR. KAPLAN: Insofar as your referencing any  
13 of the sort of what we call pick and choose data, and  
14 looking at the respondents' brief in terms of, if you  
15 say, well, this product went down a certain amount and  
16 the like, we have gone back through all the products,  
17 and for some of the very largest products in terms of  
18 volume or bits that Micron sells over the period of  
19 investigation, there are very significant interesting  
20 things to look at, and we will address those in the  
21 post-hearing brief.

22 And it is very easy to pick out one little  
23 thing here and there and make a point, but we will  
24 look at products on a product-by-product basis as well  
25 as on aggregate trend.

1                   VICE CHAIRMAN HILLMAN: Okay. And then  
2 again from the industry again, I am trying to  
3 understand. When I am looking at this why am I  
4 seeing, you know, the 64 megabit move differently than  
5 the 128 move different from the DDR?

6                   I mean, it's partly, you know, I need a  
7 little bit of an education into the sort of pricing  
8 relationship between these and why they would move  
9 differently.

10                  MR. SADLER: Sure, I can share -- this is  
11 Mike Sadler speaking -- I can share you my perspective  
12 on that. Not having seen the data that you have seen,  
13 but the pricing of a particular product is a function  
14 of time as well, and these products move into the  
15 mainstream, and they stay in the mainstream for a  
16 period of time, and then they move out of the  
17 mainstream.

18                  And my perception is that as the product is  
19 in the mainstream, in other words, when it's at its  
20 highest volume point, the price will be -- should be  
21 relatively consistent from supplier to supplier in the  
22 same type of application. For example, a 256 megabit  
23 DOM being used on a 256 megabyte module in a PC main  
24 memory application, that is what I would define as the  
25 mainstream, and that's when the price -- the prices

1 should be relatively consistent from supplier to  
2 supplier.

3 As those products go out of the mainstream,  
4 they become legacy products, they could be some  
5 variation, some pretty significant variation in the  
6 pricing as they are used for other applications  
7 besides mainstream PC main memory applications.

8 VICE CHAIRMAN HILLMAN: Okay. Then how  
9 about the pricing variations across, again, PC OEMs  
10 versus other OEMs versus non-OEM purchasers?

11 MR. SADLER: There should not be a material  
12 difference. Again, if we are doing an apples to  
13 apples comparison, there should not be a material  
14 difference for high volume 256 megabit DOM with a PC  
15 OEM or a spot market customer or a speculator. They  
16 should be relatively consistent.

17 However, within a particular product type,  
18 for example a 256 megabit DOM, there may be varying  
19 package types, there may be varying performance  
20 characteristics of that particular device, there may  
21 be variances in the configuration of the device,  
22 especially if it's more applicable to a different type  
23 of application. That would result in a materially  
24 different price for that product.

25 VICE CHAIRMAN HILLMAN: Let me ask one

1 specific, I mean, some of these products that are  
2 priced are DDR product and others are not. Help me  
3 understand kind of what that difference means in terms  
4 of how the product would price and/or this issue of  
5 the time cycle of the product.

6 MR. SADLER: Sure. The pricing is clearly -  
7 - it is purely a function of the supply and the  
8 demand. And in the case of the DDR versus another  
9 type of product, for example, an SDRAM, the circuit  
10 design is completely different, and the ability to  
11 have one supplier to support DDR versus SDRAM depends  
12 entirely upon that supplier's ability to complete the  
13 circuit design and bring that product into production  
14 at any particular point in time.

15 VICE CHAIRMAN HILLMAN: But does it affect  
16 the timing of the sort of cycle, if you will, of when  
17 this is mainstream product as you describe it as  
18 opposed to how long it takes to move out of being a  
19 mainstream product?

20 I mean, you described that there is a time  
21 period at which, you know, the product is mainstream  
22 and is being sold, and then it becomes a legacy  
23 product. I am trying to understand how these features  
24 like DDR, et cetera, may change the length of time of  
25 when it's a mainstream product versus when it's a

1 legacy product.

2 MR. APPLETON: I think I can add some light  
3 to this because we are mixing terms here a little bit.

4 When we talk about a 164, 128, 256, 512  
5 megabit, in general that's on a particular product  
6 platform that lasts for years and years. So when we  
7 say synchronous DRAM and when we say DDR, you're  
8 talking about an entire platform change for the  
9 industry as opposed to a density change of the  
10 products, so there are differences.

11 Whereas a mainstream device that Mike was  
12 referencing, like a 128 meg during the period of  
13 investigation, that will be mainstream for probably a  
14 couple of years. However, a platform device like a  
15 synchronous DRAM or a DDR will actually have a life  
16 cycle that is many, many years; you know, maybe five  
17 years, maybe six years, and the DDR that you're  
18 discussing is a platform that the market transitioned  
19 to or started transitioning to about a year ago.

20 And in the early stages of a platform  
21 transition the price is a lot less commodity nature  
22 because everybody's timing is not exact as they bring  
23 that product on, as they make the transition. But  
24 ultimately, when the platform transitions, then it  
25 becomes the commodity nature, and you will see

1 essentially what Mike was referencing, which is of  
2 real no significant differences in the pricing in the  
3 market.

4 VICE CHAIRMAN HILLMAN: Okay. And would you  
5 say -- I mean, you described in the brief a sort of  
6 normal price decline of 20 to 30 percent a year, and  
7 yet I am hearing about these changes in terms of, you  
8 know, again how fast there are changes in density, how  
9 fast there are in this smaller circuit width that  
10 Professor Hausman was describing, and in the larger  
11 weight. I mean, we are seeing all of these changes.

12 Has that changed the pace of the price  
13 decline?

14 MR. APPLETON: Well, the price decline,  
15 first of all to clarify, with respect to the initially  
16 the ability to reduce its costs over time, which in  
17 normal markets would correlate with price decline  
18 because you would have some margin that would be built  
19 in over time, the industry's ability to come down the  
20 learning curve, if you will, really hasn't changed in  
21 20 years. It's still the 20 to 30 percent, and that  
22 historically has been the price decline with the  
23 exception of very, you know, artificial market  
24 dynamics that make it move more than that. And I  
25 think maybe that answers the question.

1                   VICE CHAIRMAN HILLMAN: Thank you. Given  
2 that the red light is on, I will come back on the next  
3 round to get your response to these same questions on  
4 pricing. Thank you.

5                   CHAIRMAN OKUN: Commissioner Koplan.

6                   COMMISSIONER KOPLAN: Thank you, Madam  
7 Chairman.

8                   Different issue. While I appreciate Mr.  
9 Kaplan's endorsement of the Commission's finding that  
10 assembly casing operations of certain domestic  
11 companies which did not fabricate the DRAMs at issue  
12 is significant enough to be considered domestic  
13 product regardless of the source of the input, I still  
14 recognize that there is some inconsistency to this  
15 position in our approach because we treated the  
16 domestically-produced DRAM that is cased abroad and  
17 then re-imported as an import of domestic product  
18 rather than its having been transformed into a third  
19 source product.

20                   And I appreciate the discussion in the  
21 prehearing brief, but I note that in our preliminary  
22 determination the Commission indicated that we would  
23 revisit this in our final phase of this investigation,  
24 and I would like to know what else you might add to  
25 this, Mr. Kaplan, or Mr. Rosenthal, what your comments

1 might be on this issue.

2 MR. KAPLAN: I would actually ask Mr. Esch  
3 to address that if that is okay.

4 MR. ESCH: I think there is, you know, two  
5 different issues going on here as we set out in our  
6 brief. I think that the assembly operation is part of  
7 the domestic industry, and you have held that not in  
8 the preliminary here but in the prior case of DRAMS  
9 from Taiwan.

10 COMMISSIONER KOPLAN: That was in December  
11 of '99, that's right.

12 MR. ESCH: Correct. Right. So you know,  
13 it's a consistent position that you have held.

14 The supposed inconsistency that respondents  
15 see, you know, it's not an inconsistency between, you  
16 know, the Commerce determination of what is a product  
17 origin for the scope of the investigation. Of course,  
18 you have got to make a different determination on what  
19 the domestic like product is --

20 COMMISSIONER KOPLAN: Yes.

21 MR. ESCH: -- and domestic industry, and you  
22 don't have to coincide with the Commerce Department's  
23 determination of what is the scope of the industry --  
24 scope of the subject merchandise. And so there is no  
25 reason you have to be aligned that way.



1                   COMMISSIONER KOPLAN: I am asking the  
2 question, the flip side of what we did in the prelim,  
3 because, you know, assembly does involve a degree of  
4 technical sophistication and this industry involves  
5 some continuing R&D and capital expending to keep up  
6 with latest product process development, and it also  
7 involves a significant number of workers, and so that  
8 is why I am exploring, as I say, what I would call the  
9 flip side of what we did in our preliminary  
10 determination to resolve what is being viewed as an  
11 inconsistency in our approach.

12                   If you could continue, I would appreciate  
13 it.

14                   MR. ESCH: Well, I guess your question then  
15 is, for example, if the DRAMs fabed in the Hynix  
16 Eugene, Oregon fab are then shipped to Korea and  
17 assembled there, why aren't those considered Korean  
18 origin for purposes of the domestic industry?

19                   COMMISSIONER KOPLAN: Yes, assuming that  
20 Hynix is still -- even though it's a related party,  
21 sure, that would be the question.

22                   MR. ESCH: Well, I think you could consider  
23 those if you wanted to. The problem would be in terms  
24 of they wouldn't be considered subject merchandise,  
25 subject imports from the Commerce position because

1 they have made the determination that you have to  
2 determine the scope of the investigation based upon  
3 the fab origin of the die that go into the DRAM.

4 But you know, the inconsistency that they  
5 see is between, you know, that situation. And if you  
6 were to treat that as, you know, Korean made, I guess  
7 you can under the statute, but you know, that's the  
8 limitation you have. But I don't think it detracts  
9 from a determination that the U.S. industry must  
10 include the assembly operations, and that when they --  
11 as was stated in the preliminary determination that  
12 one of the factors you look at is, you know, the  
13 percentage or a portion of components which may be  
14 U.S. source, never before have you done that on a  
15 transaction-by-transaction basis, or even on a  
16 company-by-company basis, and therefore you should do  
17 it consistently on an industry-wide basis.

18 COMMISSIONER KOPLAN: Thank you very much.  
19 I appreciate your response.

20 Turning to Micron, in your brief at page 25  
21 you state, and I quote, "New DRAM generations were  
22 previously introduced approximately every three years,  
23 but the pace of movement to new chip densities and  
24 access speeds have accelerated in recent years."

25 When did Micro Technology last introduce a

1 new generation DRAM chip?

2 MR. APPLETON: Again, I think it's helpful  
3 to clarify two components of new technology.

4 COMMISSIONER KOPLAN: Thank you.

5 MR. APPLETON: One component of new  
6 technology is actually introduce a new device, a new  
7 computer chip itself. Another component of  
8 introducing new technology is the process that is  
9 going to be used to actually manufacture that computer  
10 chip, and even though we typically talk about them in  
11 singular form, they are really two different forms,  
12 and that is -- there is different answers for that,  
13 okay.

14 The acceleration on both of those has  
15 occurred. On the process technology, which means  
16 going to smaller line width in geometries, and the  
17 curve that we -- the learning curve that we have  
18 stayed on for a couple of decades, that used to occur  
19 -- a process technology used to last about three  
20 years, and today that process technology now  
21 transitions about every 18 months, sometimes it a  
22 little bit more, but it's now been halved.

23 The introduction of new generations of  
24 technology of these devices if you will the industry  
25 used to move in 4X quantities. The industry

1 transitioned, because of granularity issues among the  
2 computer users transitioned to moving in 2X. So where  
3 it used to from, for example, in the early times in  
4 the industry in 64 k, it would automatically make the  
5 jump to 256 k bits, and that now not the case. We go  
6 from 64 meg to 128 meg, so we do it what we call 2X  
7 instead of 4X.

8 Now, in Micron's case, we are constantly  
9 trying to bring forward both of those, so it's not a  
10 static process. It's really one of timing with  
11 respect to where you are in the market. We are always  
12 working on new processes, and we are always working  
13 new devices because at the end of the day the customer  
14 is going to determine what it is that they want to  
15 buy, and as a result it's a continuum for us to do  
16 that.

17 So you know, we talk about entering a new  
18 device, we continually try to develop new devices, and  
19 whether we are successful or not is really one of  
20 comparison to whether our competitors introduce those  
21 new devices as opposed to the time that we actually do  
22 it, because all of us are trying to do it on that  
23 cycle.

24 COMMISSIONER KOPLAN: Where are we right now  
25 in the cycle?

1 MR. APPLETON: With respect to which piece?

2 COMMISSIONER KOPLAN: Both pieces.

3 MR. APPLETON: Well, the cycle on the  
4 process technology right now is in a transition from  
5 what we call .13, which is thirteen-one-hundredths of  
6 one micron, down to .11 on the process side.

7 On the density transition currently the 256  
8 meg is the mainstream, and over the next probably year  
9 to two years it will transition to become the 512.

10 COMMISSIONER KOPLAN: Thank you.

11 Mr. LeFort, is there anything you wanted to  
12 add to that?

13 MR. LeFORT: Well, what I would just say to  
14 that if you think of it in very simple terms the game  
15 is --

16 COMMISSIONER KOPLAN: I'm trying to.

17 MR. LeFORT: And you are doing quite well.  
18 I am quite impressed with your knowledge. If this  
19 thing doesn't work out, you can come into the DRAM  
20 business, no problem.

21 COMMISSIONER KOPLAN: No, we can't do that  
22 here.

23 (Laughter.)

24 MR. LeFORT: But what you are trying to do  
25 is to get the most amount of bits on the biggest wafer

1 to the smallest size. That's how you get the  
2 competitive advantage. The guy with the smallest chip  
3 on the biggest wafer. So everybody is investing  
4 incredible amounts to be able to get there.

5 And what we have had to do is delay those  
6 investments because normally the market adjustment is  
7 somewhat self-regulating, and there is a good business  
8 case to do that. But that is why we have had to delay  
9 our 300 millimeter investment, to bring us onto that  
10 next generation on that side.

11 On the geometries that Mr. Appleton was  
12 talking about, those investments are not quite the  
13 same magnitude, so we are able to still afford doing  
14 those in order to maintain our survivability, but that  
15 is the other element that you can do to try and get  
16 more for less, if you will.

17 COMMISSIONER KOPLAN: Let me just -- I think  
18 I can get this in. We have what I call often a Table  
19 II-3, and I can't get into the details of that here,  
20 but I can in general terms say that it appears that  
21 U.S. producers are ahead of the subject Korean  
22 producer in the 256 megabit market. And I am  
23 wondering doesn't this suggest that you are not losing  
24 market share at least due to inability to invest  
25 sufficiently in developing next generation DRAMs?

1           Mr. LeFORT: That is -- quite frankly, we  
2           have been able to maintain our investment at  
3           considerable other cost. We had to cut basically \$2  
4           billion on costs in other areas, because once you miss  
5           a cycle, the history has been you go out of business,  
6           so you need to maintain that investment going forward.

7           So we have been able to do that, that's  
8           correct, but we have not been able to get the return  
9           on that investment because of the depressed prices,  
10          and because with the blending and scaling that we  
11          talked about you don't have to have all of the  
12          products available in order to affect all of the  
13          prices on those products; that's number one.

14          And number two, with the subsidies Hynix has  
15          said they are not so far behind in being able to bring  
16          out these new products anyway, so they are still a  
17          very real threat in terms of going forward.

18          COMMISSIONER KOPLAN: Thank you. That's  
19          helpful.

20          Do you have anything to add to that, Mr.  
21          Appleton?

22          MR. APPLETON: Just very quickly.

23          The ability to invest is one of erosion over  
24          years, and if you look at our financial situation or  
25          you look at Infineon's financial situation, as a

1 result of the subsidies and the losses that we have  
2 been incurring we have been eroding our ability to  
3 invest in new technology, and it is absolutely true  
4 that we are not making the types of investment or as  
5 much in investment today in trying to advance that  
6 technology as we did historically.

7 And the problem is that it doesn't show up  
8 immediately within a year because these processes last  
9 years, or the devices last years, and it shows up  
10 through time, and it's continuing to get worse and  
11 worse for us.

12 COMMISSIONER KOPLAN: Thank you.

13 MR. BECKER: Henry Becker with Infineon  
14 Technology. Just one last quick comment to your  
15 question.

16 You identified an advantage on one side and  
17 a disadvantage on the other. An example of that would  
18 be completely flipped, and I think there was testimony  
19 earlier on Hynix's qualification on the Intel platform  
20 for the 512 double data A part which they are the only  
21 one at this point that has been qualified.

22 COMMISSIONER KOPLAN: Thank you. Thank you  
23 for indulging me, Madam Chairman. Thank you very much  
24 for your help.

25 CHAIRMAN OKUN: I'll try to make sure you



1 got all the time you needed.

2 Let's see, I wanted to note that there are a  
3 number of factors that the Commission is required to  
4 look at, and I think they have been briefed  
5 extensively by both sides, so there are a number of  
6 things that I think are important to us, and I'm not  
7 going to ask questions about just because I think  
8 there is a lot of information currently on the record.

9 But let me return to a couple of arguments  
10 from the respondents to get further information, and I  
11 will direct this to you, Mr. Kaplan.

12 One of the arguments made is that what is  
13 lacking here is a correlation between the imports, the  
14 subject imports and the condition of the industry.  
15 And if I understand the respondents' arguments, they  
16 would probably take your confidential Chart 1 and 2,  
17 plot on their market share of both subject and  
18 nonsubject along with industry condition, and say  
19 lines don't all go in the right direction for a  
20 finding of injury.

21 And I wondered if there is anything you can  
22 say in a public session on this correlation issue, and  
23 if you could use your microphone.

24 MR. KAPLAN: I think I can say two things  
25 publicly. First of all, I would say look at the staff

1 report in terms of the import share, not at the  
2 respondents' brief, and I think there are some real  
3 problems with the way the respondents have analyzed  
4 the whole issue of imports.

5 I think the imports are significant, and  
6 they have had a significant impact on the market.  
7 This is an industry where, as we said, there are four  
8 players, and they remain a very significant player  
9 throughout the period of investigation.

10 The third thing I would say is you take the  
11 various levels of losses and things like that and try  
12 to draw a line on that chart relating to when the  
13 subsidies clicked in, and when the pricing impact of  
14 those subsidies on the entire market occurred. You  
15 will see that there is a direct correlation between  
16 those subsidies in 2001, and a very significant impact  
17 on the market.

18 And I think it's interesting that the  
19 respondents have said that the deepest decline in the  
20 history of the DRAM industry was in October 2001.  
21 That was the time of the second major multi-billion  
22 dollar bail-out by the government of Korea.

23 So I think if we added that line on the  
24 chart, or in some way were able to put the effect of  
25 the subsidies on the chart, you would have a very

1 significant impact on prices and the expectations of  
2 buyers in this industry.

3 CHAIRMAN OKUN: Mr. Rosenthal, and I'll come  
4 back to you, Mr. Hausman.

5 MR. ROSENTHAL: A couple of points.

6 First, if you look at the data that Hynix  
7 used underlying their argument, you will see it's not  
8 based on ITC questionnaire responses, but on  
9 alternative data sources that don't match what you  
10 have got before you. An examination of the actual  
11 data from the Commission's prehearing report does  
12 present a different picture than the one presented by  
13 Hynix, and we will discuss that further in our post-  
14 hearing brief.

15 Second, when you look at whether there is a  
16 correlation between the domestic industry's financial  
17 condition and imports, it is critical to compare the  
18 pricing impact of the imports on the profits of the  
19 industry as it's primarily, as you heard today,  
20 through pricing, undercutting and depressing U.S.  
21 prices that the imports have depressed profitability.

22 A strong correlation exists between the  
23 import pricing behavior and the industry's  
24 profitability, the U.S. industry's profitability, and  
25 again we will go into that in our post-hearing brief.

1           I would just like to add one other thing.  
2           It has been mentioned before that Commissioner Hillman  
3           came back to it in her last round of questions, and  
4           that is looking at market shares versus the output  
5           that Dr. Hausman mentioned.

6           Again, I want to bring you back to what the  
7           statute says, and the statute talks in terms about  
8           whether the volumes are significant. It doesn't talk  
9           in terms of growing market shares or shrinking market  
10          shares. It says are the volumes significant.

11          And I submit to you that in this case, and I  
12          can't talk about what the numbers show, the volumes  
13          are significant in this industry, because once again  
14          you have to take into account not just the absolute  
15          level of volumes, but the nature of the industry you  
16          are dealing with.

17          And as Dr. Hausman's testimony shows, an  
18          additional supplier, that additional amount of volume  
19          makes a tremendous difference in this industry.

20          So the volume effect by itself is  
21          significant, the volumes are significant, and  
22          certainly the pricing is significant, and we do see  
23          and we will show a correlation between those figures  
24          and the condition of the industry.

25          CHAIRMAN OKUN: Okay, thank you for those

1 additional comments.

2 Is there someone else? Mr. Hausman, did you  
3 want to comment on that?

4 MR. HAUSMAN: No, he said both things I was  
5 going to say.

6 CHAIRMAN OKUN: Okay. Then let me turn to  
7 another point that respondents raise, and that is  
8 that, you know, again looking at the nature of this  
9 industry with the global market and a commodity  
10 product, and that therefore what companies have to say  
11 about their condition is more relevant than it might  
12 be in some other industries. And respondents have a  
13 lot of exhibits focused on what Mr. Appleton and  
14 others at Micron and Infineon have said.

15 But I will just take comments on DeFazio's  
16 because it's in front of me, and I don't have to look  
17 for it, and I will just ask you, Mr. Appleton or Mr.  
18 Sadler to comment.

19 They are talking about an earnings release  
20 conference call in June of last year, "Micron  
21 attributed the softening of the semiconductor market  
22 and falling prices `principally to two factors:  
23 seasonal weakness and computer demand, and relative  
24 leveling of memory content per system.'"

25 And I wondered if you could just comment on

1 that in terms of where subject imports fit in what you  
2 were talking about there or what -- it may not have  
3 been you, Mr. Appleton, but just generally your  
4 company.

5 MR. APPLETON: Can we just clarify real  
6 quickly whether that was the conference call we just  
7 had this June, or whether it was actually a year ago  
8 so I can get the --

9 CHAIRMAN OKUN: It conference call which --

10 MR. APPLETON: Well, I am trying to get the  
11 context.

12 CHAIRMAN OKUN: -- Congressman DeFazio's  
13 testimony, and it doesn't say, it says June of last  
14 year, so I can probably get a specific cite. And  
15 someone on the back row is -- oh, actually, it's  
16 respondents' counsel.

17 MR. PORTER: It's June of this year.

18 CHAIRMAN OKUN: Thank you. There you go.

19 MR. APPLETON: Okay, I just wanted to  
20 clarify that.

21 CHAIRMAN OKUN: No problem. '02 then.

22 MR. APPLETON: Actually of '03.

23 CHAIRMAN OKUN: '03, yes.

24 MR. APPLETON: June of '03.

25 We just had a conference call earnings

1 release about a week ago so that's why I wanted to  
2 clarify.

3 In fact, Congressman DeFazio's statement  
4 wasn't true that we didn't mention anything about  
5 Hynix, and I, of course, was on that call, Mr. Sadler  
6 was on that call, our chief financial officer was on  
7 that call, and if you really want to go listen to the  
8 actual conference call you can. It's recorded. And  
9 if you can't find it, we will give it to you.

10 CHAIRMAN OKUN: Why don't you give it to us  
11 so I can make sure I have it.

12 MR. APPLETON: Yes, we can provide that for  
13 you.

14 All three of us made reference to the  
15 difficulties in the market being created by Hynix  
16 supply in that conference call to be clear, and so I  
17 don't think that's quite a true statement.

18 Now, I think we need to consider that we  
19 have different audiences as we had these earnings  
20 conference calls. Obviously, as the CEO one of my  
21 responsibility is to try to maintain confidence in the  
22 company, and we also have a lot of employees who  
23 listen to that conference call around the world, and  
24 I, of course, want to try to maintain confidence of  
25 our employees in the company, and the moral. So there

1 are really different context at which we are trying to  
2 describe the scenario for the company.

3 None of that changes the facts of the  
4 financial situation of the company. The fact that our  
5 stock price is one-tenth of what it was in 2000, the  
6 fact that we have now accumulated more losses in the  
7 last three years than even imaginable in any prior  
8 period of Micron's history, none of that changes.  
9 Those still are the facts.

10 Obviously, I am going to try to put the best  
11 light I possibly can when talking to our investor base  
12 about the company. But also factually we raised the  
13 issue of the Hynix supply during that conference call  
14 as being a problem for us in this market.

15 CHAIRMAN OKUN: Okay, I appreciate.

16 Mr. Sadler, did you have something you  
17 wanted to add?

18 MR. SADLER: We happen to have a transcript  
19 of the call here, and I would just mention that I  
20 believe this was my statement in the call, and I will  
21 quote, "a general oversupply of DRAM attributed  
22 primarily to the Korean government subsidization  
23 program continues to plague the industry. Resulting  
24 economics puts an obviously challenges," et cetera, et  
25 cetera, et cetera.



1           So really the focus of our call or part of  
2 the focus of our call last week, which was actually  
3 exactly a week ago, was primarily on the oversupply  
4 attributed to the subsidization from Hynix.

5           CHAIRMAN OKUN: Okay. I appreciate those  
6 further comments, and if you could put that on the  
7 record, that would be helpful.

8           And Ms. Byers, let me just note I know that  
9 in your presentation you also referenced the analyst  
10 reports, and I know there are a lot of analysts  
11 reports on the record, but if those are not already on  
12 there, if you can also put those on.

13           And then just with respect to demand, I just  
14 wanted to make sure that I understood where we see  
15 demand, and whether you have disagreements with how  
16 the staff report characterizes demand in this  
17 industry.

18           And Mr. Appleton, we will start with you.

19           MR. APPLETON: I will just make a quick  
20 comment, and I think Mr. Sadler can follow up.

21           You know, spring usually grants eternal  
22 hope. And if you go back and look at the comments  
23 made by analysts or forecasters, or even actually  
24 Hynix, if you want to go back and look at what they  
25 said in the spring of 2001, the spring of 2002, and

1 the spring of 2003, we all hope that the industry will  
2 improve, but it just hasn't happened. And in fact I  
3 think when you look at the analyst comments that  
4 others have referenced they don't see anything that is  
5 going to change. There is no data point that shows  
6 that as long as we continue to have subsidized supply  
7 into the marketplace there is going to be any change  
8 in the marketplace.

9 So we all like to hope, but the fact of the  
10 matter is it just simply hasn't changed now for three  
11 years.

12 CHAIRMAN OKUN: Mr. Sadler.

13 MR. SADLER: Yes, I would just like to add  
14 that, you know, demand in our industry continues to  
15 grow. I think what we -- we have obviously plotted  
16 demand, annual demand growth rates in terms of the  
17 uniform measurement, with his bit demand, for the last  
18 -- well, every year since our industry has been in  
19 existence.

20 And I believe the range is somewhere at a  
21 low of about 50 percent annually and a high of  
22 something over 100 percent annually. There is no  
23 correlation at all with respect to increasing prices  
24 or even price stability to the high demand periods.

25 The fact of the matter is it's all about

1 supply. And in this case it's subsidized supply from  
2 Hynix that is contributing to the dismal state of our  
3 industry.

4 CHAIRMAN OKUN: Yes, Mr. Hausman. My red  
5 light is on but --

6 MR. HAUSMAN: Well, along those lines, when  
7 Senator Wyden was talking I actually computed how much  
8 demand has increased between first quarter of 2000 and  
9 second quarter of 2002, and it went up by more than  
10 100 percent. So he was not quite correct when he said  
11 demand wasn't growing.

12 CHAIRMAN OKUN: Okay. I appreciate all  
13 those comments on demand. And if there is anything  
14 further with regard to how the staff report looks at  
15 it, I would appreciate that post-hearing as well.

16 Vice Chairman Hillman.

17 VICE CHAIRMAN HILLMAN: Thank you. I guess  
18 I will sort of take up exactly where you just left off  
19 on that because Hynix obviously argues in their brief  
20 that one of the contributing factors to the poor  
21 market conditions in 2001 and 2002 was a slowing of  
22 demand growth. I mean, they are not suggesting that  
23 it's not growing, it's just that it's growing at a  
24 lesser pace.

25 I mean, their numbers would have indicated

1 market growth of about 70 percent a year from '95 to  
2 2000, but 60 percent in 2001, 41 percent in 2002, so  
3 they are showing this notion that the growth in demand  
4 is starting this kind of downward curve, and that that  
5 was one of the contributing factors to the poor market  
6 conditions in 2001 and 2002.

7 First of all, would you agree with that  
8 sense, and what is its significance?

9 MR. KAPLAN: Could I ask if Mr. Love could  
10 address that? We did a lot of work in terms of the  
11 analysis of demand and the relationship to pricing. I  
12 think it would be interesting to have him address  
13 that.

14 VICE CHAIRMAN HILLMAN: Mr. Love.

15 MR. LOVE: Yes, I would be happy to. Mark  
16 Love, Economic Consulting Services.

17 Consistent with our view that supply is the  
18 primary determinant of cycles that we have seen over  
19 the last 15 years, we took a close look at the demand  
20 -- relationship between demand changes and price  
21 changes. I think you might find it helpful to look at  
22 our Exhibit 6 in the brief where we provide a 15-year  
23 series of growth rates in the DRAM world market as  
24 well as price changes; the source, IC Insights, very  
25 well respected research firm.

1           Anyway, we took a close look at this because  
2 we wanted to get straight what we felt was a  
3 reasonable assessment of the impact of demand, and to  
4 our somewhat surprise we found that there was actually  
5 no correlation whatsoever over this whole period. In  
6 fact, there is an inverse correlation which is  
7 counter-intuitive.

8           I would point out the fact that during the  
9 highest growth periods in terms of demand for bits  
10 would be, for example, the period '96 through '98.  
11 During that period you saw some of the most steepest  
12 price declines throughout the whole period.

13           Similarly, if you look at say 1993, which  
14 was a recovery year to certain extent in terms of  
15 pricing, you saw prices go up about four percent,  
16 which is, as you know because of the learning curve, a  
17 little unusual, and that was one of the lowest demand  
18 growth periods.

19           So there is really no observable correlation  
20 between demand growth and price changes. We think  
21 it's all related to supply issues which we have been  
22 discussing at length here.

23           VICE CHAIRMAN HILLMAN: Okay, thank you. I  
24 appreciate that answer.

25           MR. LOVE: And I would add, I'm sorry to

1 interrupt, but I would add that demand continues to  
2 increase at rates we have seen for the last several  
3 years and at rates which we have seen at times in the  
4 past as well. And I think all the research reports  
5 will indicate that that is also the case.

6 VICE CHAIRMAN HILLMAN: Okay. No, I  
7 appreciate that answer.

8 Mr. LeFort, at the end of my last round of  
9 questioning I was talking a little bit about again  
10 trying to put what's happening in prices in some kind  
11 of context, and obviously one of the tricky things for  
12 us in a case involving a product like this where we  
13 normally look at price declines and try to figure out,  
14 you know, the degree to which they are caused by, you  
15 know, imports in the market, obviously here we have to  
16 overlay that with what is happening in the tradition  
17 DRAM cycle in terms of how much of the change in price  
18 is the normal cycle versus how much of it might be due  
19 to something else.

20 And so again, I was just trying to get your  
21 perspective on it, and part of what I'm trying to  
22 understand is again how to overlay the price declines  
23 that we have seen in terms of what is historically  
24 happened, what has normally happened, what is the  
25 normal cycle with some of the information that Mr.

1 Appleton was giving in response to Commissioner  
2 Koplan.

3 I mean, this issue that, you know, kind of  
4 the process changes, the changes in density, the  
5 changes in circuit -- you know, the circuit width, the  
6 changes in the wafer sizes have speeded up as I heard  
7 his testimony from in the order of three years to, you  
8 know, 18 months or a little longer, and overlay that  
9 with the notion that, you know, these -- you know, you  
10 are not going on a four factor anymore, the new device  
11 schedule is more on the two factor. And we would  
12 normally look at a cycle of three years. We would  
13 normally look at a 20 to 30 percent price decline as  
14 being sort of normally what we would expect in the  
15 market.

16 And yet I now have to factor in these issues  
17 of changes in process development time, changes in  
18 device time and overlay all of that with what is  
19 really driving the prices and the price declines at  
20 the pace we have seen.

21 So I wondered if you can help me from your  
22 perspective understand, again, how to put the price  
23 declines that we have clearly seen in the DRAM market  
24 over this period into this kind of context.

25 MR. LeFORT: Well, one of the things that we

1 should keep clear is there is cost reduction and then  
2 there is price reduction, all right. And so a lot of  
3 what you referenced and what Mr. Appleton referenced  
4 are all the things we do to get our costs down.

5           And when supply and demand are in reasonably  
6 balanced there, then you can say that by us putting  
7 down our costs helps to drive the prices down, and it  
8 is certainly in our interest to drive prices down with  
9 relative to cost so that we can get more demand and  
10 fuel the demand to keep growing. So that's more or  
11 less the normal situation when supply and demand is  
12 balanced.

13           But what happens normally in a downturn is  
14 supply and demand is self-regulating because the  
15 market forces work, and at some point in time the  
16 noncompetitive suppliers or those suppliers that have  
17 alternatives that want to go and invest their money  
18 elsewhere they leave the market, and that very quickly  
19 regulates the market into supply and demand, and that  
20 is why we are here today is that this market has been  
21 longer and more depressed than ever in the history of  
22 the DRAM business.

23           In fact, the good senator from Oregon  
24 actually highlighted that. He said this is the  
25 typical boom and bust cycle except this one is longer



1 and worse. We all agree with that. The difference is  
2 we say the reason it's longer and worse is because  
3 market forces have not been allowed to play, and a  
4 weak supplier in that supply and demand, Hynix, has  
5 been kept in the market through unfair subsidies.

6 So that's what is happening on the price  
7 drive is what's driving this is really the supply and  
8 demand side.

9 VICE CHAIRMAN HILLMAN: Okay, but would you  
10 say these changes and/or this going to two times has  
11 affected the speed at which your cost reductions come  
12 down?

13 MR. APPLETON: If I can address that since I  
14 made the comment. I probably should have clarified.

15 Every time we have to find something new in  
16 order to continue to generate these cost reductions,  
17 and in cumulation of all of these changes we have been  
18 able to simply stay on the same curve. So our ability  
19 to reduce cost 20 to 30 percent per year are really by  
20 doing these new things we are able to stay on that  
21 same curve. So the curve hasn't changed that much.

22 VICE CHAIRMAN HILLMAN: Okay. Okay, no,  
23 that's the answer I needed. I appreciate that.

24 Mr. LeFort, from your perspective would you  
25 agree with that, that the cost reduction curve at 20

1 to 30 percent a year has stayed on that curve, there  
2 hasn't been a significant change in it?

3 MR. LeFORT: The only thing I would say to  
4 that technology-wise that's true. But because of the  
5 severe pricing situation things such as overhead and  
6 new hiring and everything we can do. You know, Mr.  
7 Becker told me last night in a plea almost that he has  
8 one person in his factory doing administrative work  
9 for 1700 people. I mean, that's the type of severe  
10 situation we are in. So normally we would not be that  
11 lean, we would not be on that level. But relative to  
12 the normal technology-related cost reductions, i would  
13 say that's correct.

14 VICE CHAIRMAN HILLMAN: Okay. Then I guess  
15 if I could go to another issue. Hynix claims, I mean  
16 you mention this issue of supply, supply, so I am  
17 trying to make sure I have a good picture on that side  
18 of it. Hynix claims, in addition, that the poor 2001  
19 conditions were caused in part by a draw down of large  
20 purchaser inventories that were accumulated in 2002.  
21 And again, I'm trying to understand two things.

22 One, are there any publicly available data  
23 that would help us understand whether there were  
24 significantly larger purchaser inventories? Is there  
25 anybody out there that tracks inventories held at the

1 purchaser level of these products?

2 And the secondly, just even if there is not  
3 data, I mean, what would be your sense? Were  
4 purchasers accumulating more than normal inventory in  
5 2000 of DRAMs?

6 MR. SADLER: I think the -- first of all,  
7 with respect to is there third party data available  
8 that would measure inventory in the hands of  
9 purchasers, I don't believe there is; at least I am  
10 not aware of any.

11 I would add to that that the business model  
12 that we have in place to support the PC manufacturers  
13 today, which as Mr. Appleton mentioned, drive  
14 approximately 85 percent of the total demand, megabit  
15 demand for DRAM. The business model that we have in  
16 place doesn't require our customers to carry any  
17 inventory.

18 There is no reason whatsoever for them to  
19 carry any inventory risk. We store product or we  
20 stock product adjacent to their PC assembly  
21 facilities. And as they are going to build a PC, they  
22 pull the inventory out, and integrate it into a PC,  
23 and then send it to the customer. So there is no  
24 reason whatsoever regardless of the market environment  
25 for them to carry any inventory at all.

1           So my perception would be that whether it  
2 was going out of 2000 into 2001 or throughout 2001 and  
3 2002, or even today, no reason whatsoever for any of  
4 the customers to carry to carry any inventory  
5 whatsoever and take any inventory risk.

6           VICE CHAIRMAN HILLMAN: Mr. LeFort, would  
7 you have any other comments on this issue, purchaser  
8 inventory?

9           MR. LeFORT: No, I think that's fair, that's  
10 a fair and accurate assessment.

11           VICE CHAIRMAN HILLMAN: Okay. Thank you  
12 very much.

13           CHAIRMAN OKUN: Commissioner Koplan.

14           COMMISSIONER KOPLAN: Thank you, Madam  
15 Chairman.

16           On page 32 of the Infineon brief, and  
17 continuing on, I guess, to page 35, you discuss that  
18 the subsidies involved in these investigations  
19 contribute strongly to a threat of material injury to  
20 the domestic industry because they are export  
21 oriented.

22           And you also by way of background, I'm just  
23 quoting, you say that "Commerce preliminarily found  
24 from 1976 through the period of investigation in this  
25 case the Korean government specifically identified the

1 semiconductor industry as a strategic export-oriented  
2 industry that would receive special treatment and  
3 subsidies in the form of carefully directed government  
4 funding and credit."

5 As I say, this goes on for several pages.

6 I am curious. Since they have been in  
7 effect since '76, why did you all choose not to oppose  
8 the lifting of the order in the Commission's recent  
9 sunset review of DRAMs from Korea?

10 MR. KAPLAN: Well, I think we looked at that  
11 situation at that time, and that was before these  
12 major subsidies had occurred. And we thought that  
13 there had been some changes at that time. Though  
14 there were export subsidies and the like, those would  
15 not necessarily have been looked at in any way in the  
16 lifting of the order as that was a dumping order and  
17 it wouldn't have affected those directly anyway.

18 We were certainly surprised when, I think,  
19 Hynix started getting billions and billions of dollars  
20 of subsidies, and that caused us, I think, to take a  
21 different look at this whole situation. But at the  
22 time of the sunset order none of those subsidies and  
23 none of that bail-out had even started.

24 COMMISSIONER KOPLAN: Okay, thank you for  
25 that. But Mr. Rosenthal, this was your brief.

1           MR. ROSENTHAL: We were not parties to the  
2 original investigation, and Infineon had not made, at  
3 least had not until the last few years made the  
4 investment in the U.S. facilities that has really  
5 caused them to take an active interest in this  
6 proceeding today.

7           MR. APPLETON: I think I can add on just a  
8 little bit more to that --

9           COMMISSIONER KOPLAN: Mr. Appleton.

10          MR. APPLETON: -- from Micron's perspective.

11           If you go back to the timing of when we  
12 chose not to oppose that, I believe it was in 2000,  
13 '99 through 2000, that in 1998, the IMF contribution,  
14 which is about \$60 billion to the Korean government,  
15 there were -- specifically at that time we had an  
16 agreement that required the secretary of the treasury  
17 to certify that that money would not be directed to  
18 any particular industry, and obviously we were very  
19 concerned about the semiconductor industry in Korea  
20 and having somehow that money make its way back  
21 through there.

22           And in fact I think we were hopeful that  
23 reform would occur. The Korean government had  
24 committed to reform, and it wasn't, as Mr. Kaplan had  
25 mentioned, until later that it became apparent that

1 there wasn't going to be any form, and that the  
2 subsidies were going to continue.

3 But at the time we didn't oppose it we were  
4 still in that stage and that process where we had a  
5 commitment that there would be reform.

6 COMMISSIONER KOPLAN: Thank you. I  
7 appreciate that, and with that I have no further  
8 questions. I want to thank you all very much for your  
9 answers.

10 Madam Chairman.

11 CHAIRMAN OKUN: Thank you. Just two things  
12 to follow up.

13 One, in the -- for the information that  
14 you're going to put in the briefs regarding this  
15 correlation between imports and injury condition, if  
16 you will also in that context address the pendency of  
17 the investigation and how that relates to that time  
18 period that you are looking at, I would appreciate  
19 that. I know you have commented on it but I just want  
20 to make sure that I understand the argument.

21 And then secondly, with regard to the 1999  
22 Taiwan semiconductor case, which has been argued  
23 extensively, I know, I believe, Mr. Rosenthal, it  
24 might have been in your brief where you had an  
25 extensive footnote addressing the distinctions. I

1 guess, to the extent I have heard respondents raise it  
2 again today, and I assume we will hear some more, if  
3 there is anything further you want to comment on, I  
4 would appreciate that.

5 Mr. Appleton, was there something you wanted  
6 to say in particular?

7 MR. APPLETON: Well, just quickly with  
8 respect to the Taiwanese case, because obviously we  
9 were here prior arguing the impact that they were  
10 having on the market. I think it is important to note  
11 that things have changed since then; that the  
12 Taiwanese industry itself has in fact consolidated.  
13 There is a number of competitors that have actually  
14 left that business.

15 UNC was making product, Winbond was making  
16 product, Accer was making product, et cetera, and such  
17 that the industry -- we did go through a  
18 consolidation, and the situation has changed from that  
19 point in time to where we sit today, which is really  
20 very different from the situation we're looking at in  
21 the Hynix situation.

22 CHAIRMAN OKUN: Okay. I appreciate those  
23 comments. And again, to the extent that -- oh, Mr,  
24 Kaplan?

25 MR. KAPLAN: I am not sure I understood your



1 first question. You meant the pendency of the  
2 antidumping case and how that impacted?

3 CHAIRMAN OKUN: The pendency in this case,  
4 the pendency of the preliminary determination, how it  
5 affected the interim data.

6 MR. KAPLAN: Oh, okay. I understand. Yes,  
7 we will address that. Thank you.

8 CHAIRMAN OKUN: Okay, I think, again, the  
9 briefs were very thorough. There was a lot of  
10 information there, and I appreciate that.

11 Let me turn to Vice Chairman Hillman.

12 VICE CHAIRMAN HILLMAN: Yes, I hope just a  
13 couple of quick follow ups.

14 One again goes back to this issue of trying  
15 to understand the pricing of these different products,  
16 and I guess as well as the response that I heard on  
17 this issue of how I should regard the nonsubject  
18 imports.

19 I mean, one of the responses was, well,  
20 Samsung, gee, they are mostly or heavily or RAM-bus so  
21 I should somehow discount that as not as directly  
22 competitive, or somehow take it into account  
23 differentially, which leads me to needing to  
24 understand just a little bit from your perspective the  
25 relative role in relationship between these specialty

1 DRAM products as opposed to I guess what I would call  
2 the regular DRAMs.

3 I mean, help me understand, you know, I  
4 guess the little bit that I understand is that with  
5 all of this new technology some of the regular DRAMs  
6 are now beginning to replace some of the market that  
7 had been filled by the more specialized SG-RAMs, V-  
8 RAMs, some of these other products.

9 I am trying to understand that as opposed to  
10 this notion that somehow Samsung is playing a  
11 different role in the market because it's heavily  
12 focused on RAM-bus products.

13 So again, I need a little bit of a better  
14 understanding of sort of what portion is specialty,  
15 how does specialty relate to regular DRAMs? Has it  
16 changed over the POI? And particularly, are the  
17 Koreans more focused, Hynix in particular, in  
18 specialty side or, I guess, the regular DRAM market?

19 MR. APPLETON: Well, first of all, I want to  
20 comment on the specialty DRAM side. I think I can  
21 probably let either Mr. LeFort or Mike Sadler answer  
22 the question as to the total product line and the  
23 impact that it has.

24 I didn't mean to imply that somehow Samsung  
25 wasn't making the products that we make, because they

1 do, and I didn't mean to imply that was the majority  
2 of their output. But when you look at the differences  
3 in market shares that have occurred, I think it is  
4 significant that a percentage of that, a reasonably  
5 large percentage of that is in the specialty area  
6 where we do not compete.

7 And that simply trying to say Samsung,  
8 Samsung, Samsung, look at their growth isn't really a  
9 fair comparison because they do make products that we  
10 don't participate in our industry.

11 VICE CHAIRMAN HILLMAN: Okay.

12 MR. SADLER: Using your terminology of the  
13 regular DRAMs, that would be more reflective of the  
14 DRAM parts that we use to address that 80 to 85  
15 percent of the market that we call dependent upon the  
16 PC, the PC demand. The balance or the difference  
17 between 100 percent and that would be, again using  
18 your terminology, what you call specialty products;  
19 for example, lower density devices or devices with  
20 some type of specialized packaging, and special  
21 features, extremely low power or high performance.

22 VICE CHAIRMAN HILLMAN: Okay. And just so I  
23 understand it, has there been a change in the portion  
24 of the market that is filled by what I will call  
25 regular DRAMs as opposed to specialty? Has that

1 changed over the POI?

2 MR. SADLER: Not materially.

3 VICE CHAIRMAN HILLMAN: Okay.

4 MR. SADLER: During the POI, there was a  
5 subset of that PC demand that was being filled by what  
6 technically would be called a specialty product. It  
7 was a direct RV-RAM, a RAM-bus product, and that was I  
8 believe referred to earlier by Mr. Appleton. That  
9 market really is not in existence anymore, so it's  
10 back to the "regular" DRAMs filling all the PC demand.

11 VICE CHAIRMAN HILLMAN: And tell me about  
12 the competition between the two. I mean, if what you  
13 need, if what you think you need is one of these  
14 specialty products, can your need be met by a regular  
15 DRAM? Or if that's what you need, that's what you  
16 need, and you're not going to buy something else no  
17 matter what the price difference is?

18 MR. APPLETON: Yes, it can -- there are  
19 different platforms. When I talked about DDR and  
20 synchronous DRAM.

21 VICE CHAIRMAN HILLMAN: Yes.

22 MR. APPLETON: Well, a RAM-bus at one time  
23 there were projections that it would become the new  
24 platform for the industry. In fact, it did not become  
25 the new platform for the industry, but a percentage of

1 the market used it, and they are not compatible.

2 There is no switching out of these products at all.

3 VICE CHAIRMAN HILLMAN: Okay. Mr. LeFort?

4 MR. LeFORT: Yes, just a couple of things on  
5 that.

6 So again it depends on -- Mr. Kaplan brought  
7 up a very good point which is if they are looking at  
8 dollars during the period of investigation, these  
9 specialty, because there is much less competition and  
10 much less supply and demand, on a dollar basis they  
11 managed to keep some very high prices in those areas.

12 So if you are looking at market share and  
13 dollars instead of bits, there would be a material  
14 impact. If you are looking at bits, there would not  
15 be a material impact versus the tradition.

16 VICE CHAIRMAN HILLMAN: Okay. Hold on just  
17 one second. Then is Hynix more -- I was trying to  
18 make sure I understood where Hynix is at on the --

19 MR. LeFORT: Hynix is more on the mainstream  
20 side.

21 VICE CHAIRMAN HILLMAN: Okay.

22 MR. LeFORT: I'm not sure that I should  
23 speak for them, but where we see them for sure is more  
24 on the mainstream.

25 The other thing to be clear is Samsung has a

1 much different position in the market than Hynix does.  
2 Really, Hynix's very existence has been, as Mr.  
3 Rosenthal said, been questioned. Well, that obviously  
4 causes concern at very large manufacturers. So while  
5 they are very capable of setting the price, once that  
6 is taken out of the equation they have a very weak  
7 position because their stability has been questioned.  
8 It's never quite clear if they are going to get the  
9 next funding from the Korean government.

10 So because of all of that a company like  
11 Samsung who has much stronger fundamentals could very  
12 well be picking up market share during the period,  
13 again all other things being equal.

14 VICE CHAIRMAN HILLMAN: Okay. Mr. Love, you  
15 had your hand up?

16 MR. LOVE: Yes, thank you.

17 With respect to the specialty products  
18 versus what the staff has called standard DRAMs, the  
19 importer questionnaire did in fact request data from  
20 each of the importers separating out their imports and  
21 supply of standard DRAMs versus RAM-bus versus all  
22 other specialty products that have been mentioned  
23 here, and by source of fabrication, I believe, so that  
24 you have that data to sort out who does what and how  
25 much.

1                   And we would recommend that it would be  
2                   useful for you to take a look at apparent domestic  
3                   consumption with respect to the standard DRAMs, which  
4                   I believe you could probably do, and you might find  
5                   that somewhat helpful in coming to grips with the  
6                   issue of Samsung and other nonsubject imports.

7                   VICE CHAIRMAN HILLMAN: No, I appreciate  
8                   that response. Thank you.

9                   Mr. Appleton, just a quick coming back to  
10                  you. You had stated in your original opening comments  
11                  that Micron had been unable to borrow for its  
12                  investment and that it had to issue equity at, you  
13                  know, low stock prices -- I won't say low, but at  
14                  stock prices that perhaps are not what you might have  
15                  wished for.

16                  I am wondering if in the post-hearing you  
17                  can provide any details on this effort in terms of  
18                  trying to obtain financing --

19                  MR. APPLETON: Yes, sure.

20                  VICE CHAIRMAN HILLMAN: -- so we have it on  
21                  the record for us.

22                  MR. APPLETON: You can say low, that's okay,  
23                  it's low.

24                  VICE CHAIRMAN HILLMAN: Okay.

25                  MR. APPLETON: Yes, we can disclose

1 confidentially the companies that we approached in  
2 order to try to get financing that we weren't able to  
3 get done.

4 VICE CHAIRMAN HILLMAN: Okay. No, I would  
5 appreciate that in the post-hearing.

6 And I think with that I have no further  
7 questions, Madam Chairman, but I would thank you much  
8 all for your answers. Appreciate it.

9 CHAIRMAN OKUN: Commissioner Koplan.

10 COMMISSIONER KOPLAN: Thank you, Madam  
11 Chairman.

12 I just have a request for the purposes of  
13 the post-hearing. In light of the Commerce  
14 Department's June 17 de minimis finding with regard to  
15 Samsung, and counsel, you might have already intended  
16 to do this for the post-hearing, but I would  
17 appreciate it if you could provide me with an analysis  
18 of Gerald Metals in the context of the nonsubject  
19 imports. If you could brief that post-hearing, I  
20 would appreciate it.

21 MR. KAPLAN: Absolutely.

22 COMMISSIONER KOPLAN: Thank you, Mr. Kaplan.  
23 Mr. Rosenthal?

24 MR. ROSENTHAL: Certainly.

25 COMMISSIONER KOPLAN: Thank you. And with



1 that I have nothing further. Thank you, Madam  
2 Chairman.

3 CHAIRMAN OKUN: I see no questions from my  
4 colleagues. Let me see if Commission staff has  
5 questions of this panel.

6 MS. ALVES: Yes. Good afternoon. Mary Jane  
7 Alves from the general counsel's office.

8 I have three brief questions, all of which  
9 can be addressed in the post-hearing brief. I am  
10 sensitive to the lateness of the hour.

11 The first question is regarding the  
12 Commission's examination of whether or not certain  
13 activities conducted in the United States constitute  
14 sufficient production-related activities. In your  
15 post-hearing briefs would you please focus in addition  
16 on how the Commission should measure value-added to  
17 the product in the United States?

18 Is this a function of over the lifetime of the  
19 product, for example, or is there some other measure  
20 that the Commission should be looking to in that  
21 context?

22 In Micron's prehearing brief, although there  
23 is no subsequent discussion of this issue, there  
24 appears to be a suggestion that the Commission should  
25 consider whether appropriate circumstances exist to

1 exclude Samsung as a related party.

2 In light of Commerce's de minimis final  
3 determination regarding imports from Samsung, is there  
4 any legal or factual basis for such an argument?

5 Finally, with respect to the prehearing  
6 brief filed by Infineon, there is some discussion with  
7 respect to the nature and effects that the subsidies  
8 factors in the threat context. The discussion here is  
9 premised on a discussion of the Department of  
10 Commerce's preliminary determination.

11 If you could elaborate in your post-hearing  
12 briefs on Commerce's final determination, and more  
13 specifically identify whether or not the Commerce  
14 Department in fact made a finding that any of the  
15 subsidies are the sort contemplated by Article 3 or  
16 Article 6.1 of the Subsidies and Countervailing Duty  
17 Measures Agreement.

18 I believe that those are all the questions  
19 from staff at this point.

20 CHAIRMAN OKUN: Thank you.

21 Do counsel for respondents have questions of  
22 this panel?

23 MR. PORTER: Yes, Madam Chairman, we have  
24 just one question. Actually it's a follow up on a  
25 question Commissioner Koplan had asked; if Professor

1 Hausman could share his specific model and the  
2 underlying data used in the model before the post-  
3 hearing brief, in fact, maybe by tomorrow or the next  
4 day, so there can be full discussion of his  
5 conclusions in the post-hearing brief.

6 Thank you.

7 MR. HAUSMAN: Certainly. I will do it  
8 tomorrow when I get back to Cambridge.

9 CHAIRMAN OKUN: Thank you, Mr. Hausman.

10 All right, with that this would be a good  
11 time for a lunch break. I will remind everyone that  
12 the room is not secure, so if you have confidential  
13 business information please take it with you.

14 We will recess for one hour and two minutes,  
15 resume at 2:00.

16 And again, I really want to thank all the  
17 witnesses for their testimony this morning, and for  
18 staying with us and responding to all our questions.  
19 I know it's been a long morning.

20 And with that, this hearing is recessed.

21 (Whereupon, at 12:58 p.m., the hearing in  
22 the above-entitled matter was recessed, to resume at  
23 2:00 p.m. this same day, Tuesday, June 24, 2003.)

24 CHAIRMAN OKUN: This hearing of the U.S.  
25 International Trade Commission will please come back

1 to the order. Madame Secretary, I see that the second  
2 panel of witnesses is seated. Has everyone been  
3 sworn?

4 MS. ABBOTT: Yes, Madame Chairman.

5 CHAIRMAN OKUN: Thank you, Madame Secretary.  
6 Mr. Durling, you may begin your presentation.

7 MR. DURLING: Thank you. Members of the  
8 Commission, my name is James Durling with the law firm  
9 of Willkie Farr & Gallagher. And what we would like  
10 to do today is cover three broad topics. First, we'll  
11 discuss the broader forces that have been driving the  
12 DRAM market, including many of the factors ignored by  
13 Micron and Infineon. And for that part of the  
14 presentation, we will hear from Mr. Farhad Tabrizi  
15 from Hynix.

16 We will then turn to the specific pricing  
17 dynamics in the U.S. market, the role of global  
18 pricing, and how customers choose among suppliers, a  
19 topic of great interest to the Commission, as we heard  
20 this morning. For that topic, we will hear from Mr.  
21 Gary Swanson, also from Hynix. And then we will come  
22 back to what are the implications of these market  
23 realities for the ITC analysis, which I will present,  
24 focusing on injury causation and threat.

25 As you listen to our presentation, we would

1 like you to bear in mind a few key themes. The first  
2 is the context is critical. The role of Hynix in the  
3 U.S. market can only be understood in the context of  
4 the business cycle and, importantly, in the context of  
5 other DRAM suppliers. The second important theme,  
6 changes over time -- the key issue for the Commission  
7 is how has Hynix's role changed over the period.  
8 While others have spent more and gained market share,  
9 Hynix has been losing share.

10 The third important theme is that Micron is  
11 fundamentally wrong, both factually and as a matter of  
12 economics, to stress only supply. Demand in this  
13 market is critical, and we'll discuss that at some  
14 length.

15 Another major theme is the importance of  
16 subject imports and the effect of subject imports in  
17 this case. The statute focuses on subject imports.  
18 And as your questions this morning highlighted, that  
19 is our job here, to apply the statute.

20 Finally, in doing the analysis, it's  
21 critical to take into account the role of nonsubject  
22 imports. So with that, by way of an overall  
23 introduction for our panel, I'd like to turn the floor  
24 over to Mr. Tabrizi.

25 MR. TABRIZI: Good afternoon, Madame

1 Chairman, Madame Vice Chairman, Commissioner. My name  
2 is Farhad Tabrizi. I'm in charge of Hynix's worldwide  
3 marketing. I also have been in this business for 20  
4 years. I started at American company, and then I went  
5 for a Japanese company, and the last 10 years I have  
6 been with Hynix.

7 I want to go ahead and start by presenting  
8 the market, the DRAM market. The key points that I  
9 think everybody agrees in the industry, that the DRAM  
10 market is cyclical. It goes up and it comes down. It  
11 has some upturns, and it has some down cycles. The  
12 DRAM market is also a global market, for both  
13 suppliers and users. Nobody wants to deal with DRAMs  
14 on a local basis. Pricing depends on demand/supply  
15 and does not depend primarily on the supply factors.  
16 DRAM is a commodity product. It's interchangeable  
17 from various -- the DRAMs are interchangeable and pure  
18 commodity. So everybody agrees to this point.

19 So about the cycle of DRAM. We borrowed  
20 this slide from Micron. They presented this in  
21 November of '02. They clearly show that since the  
22 beginning of the DRAM issue in '71, there have been a  
23 lot of cycles. But one key item that we should look  
24 at -- during the many cycles that they talked about,  
25 they didn't mention the demand side. What is new

1 about this cycle -- what is different about this  
2 cycle, Micron says it's customer demand. And I think  
3 we agree with them.

4 This shows the DRAM cycle. We had some good  
5 years in '95. The DRAM industry made \$41 billion. We  
6 had some bad years, a lot of bad years. And they  
7 usually repeat around, you know, two to three years,  
8 four years apart. And the condition of the -- the  
9 degree of worsen cycles is in terms of 50 to 80  
10 percent. So if you look at the degree, we had various  
11 cycles relative to the downturn. So the 2001, really  
12 it was a bad year, but relatively, you know, we had  
13 other bad years, too.

14 So let's talk about the DRAM market as a  
15 global market. In this presentation, I'm showing the  
16 DRAM market pricing in various regions, North America,  
17 Europe, and Asia; for various densities, 16 meg, 64  
18 meg, 128 meg, and so forth. As you can see, there is  
19 not much price difference in any reason. Everything  
20 follows the same pattern. And also, when the new  
21 product comes into market, initially it's a very high  
22 price. And as the learning curves and cost comes  
23 down, the price goes down.

24 This is very specific to 128 meg, and it's  
25 very specific to the time we are reviewing right now.

1 The price was basically flat across the globe.

2 We borrowed another slide from Micron, and  
3 it shows also Micron is also globalizing. They are  
4 moving their market to outside U.S. In 1997, Micron  
5 sold 75 percent of their product in America. By 2002,  
6 that percentage dropped to 54 percent. They were very  
7 active in Asia, gaining market shares very  
8 aggressively, at 46 percent today.

9 So demand is also a very critical factor in  
10 this element. So we talk about -- this morning,  
11 Micron talked about -- sometimes they said -- Mr.  
12 Sadler said pricing is clearly a function of supply  
13 and demand. But then at some point they said it's  
14 only supply. So I'm a little bit confused. But I can  
15 assure you, in 20 years of my experience, it's supply  
16 and demand at given time. And it's the relative to  
17 the level of demand that causes the prices to go up  
18 and down.

19 Particularly in 2002, I heard bad things  
20 like the three-year economic meltdown, extraordinary  
21 downturn. 2001 was a bad year, really bad year in  
22 terms of technology. If you look at the technology,  
23 where the demand comes -- this morning Micron said 85  
24 percent of the demand comes from the computing.  
25 Computing purchases dropped when? In 2001. This is



1 the total computing, the whole electronic. So that's  
2 the time that they didn't buy DRAMs anymore.

3 This is the rate of decline in the same  
4 area. In 2000, they had 20 percent growth. In 2001,  
5 somewhere around 30 percent growth -- I mean decline  
6 -- another 20, 22 percent decline the following year.  
7 So we had really a couple of bad years.

8 Again, one other example, 85 percent of the  
9 DRAM goes into the PCs and PC-related. Since the  
10 beginning of PC, we never had a year that was below  
11 zero growth. We always had a lot of double digit  
12 growths. 2001, the only year in history of PC market  
13 that it was a negative growth. And that is very much  
14 related to the DRAM revenue. DRAM revenues follow  
15 usually the PC growth.

16 Micron also, I think -- even though they  
17 don't want to admit here -- but they agree that demand  
18 matters. Even Mr. Appleton said, we have a  
19 fundamental shift, I think, in the demand profile. As  
20 you know historically, it was around 75 percent; now  
21 it's about 15 percent -- I mean 50 percent. This is a  
22 recent conference call.

23 So also the understanding of the demand at  
24 the time is very important. So during the 2001, we  
25 understand that demand was really bad. And this weak

1 demand had nothing to do with Hynix and Hynix's  
2 situation. Supply -- we didn't say it doesn't matter.  
3 It's a demand and supply balance. So supply is also  
4 an important factor.

5           If you look at the number that New Fab has  
6 come to the production, we had a lot of New Fabs in  
7 the '90s. But in the last three years, the number of  
8 New Fabs has been reduced quite a bit. I would like  
9 to share that, that Hynix did not contribute to any of  
10 this New Fab that has been built in the last two  
11 years. So Hynix did not add capacity.

12           Megabyte shipment -- look at the 1999.  
13 Hynix had 20 -- by the way, this is megabyte. It's  
14 not dollar. It's actual byte shipment. And the  
15 source of data is Gartner Dataquest. In 1999, we had  
16 20 percent, Samsung had 18, Micron had 16, Infineon  
17 had 8, and Nanya had 1. And look at 2002. Samsung  
18 28, Micron 21. Micron had a bad year in 2002 due to  
19 technical difficulties that they themselves admit to  
20 that. They make very wrong decision in terms of DDR  
21 transition. And Hynix is the only company among the  
22 big four that has lost market share from 20 to 14.7  
23 percent. So I don't know who has got injured here,  
24 Hynix or the others.

25           Hynix's share of the 2000 really was not the

1 cause of problem. We have continuously lost market  
2 share. We have spent less money on capital  
3 expenditures than anybody else, comparing to our  
4 competitors. We converted three of our 18-inch Fab to  
5 non-DRAMs since the merger with LG. And our total  
6 capacity has been reduced since '99. We have not  
7 increased the total capacity. So we cannot be really  
8 blamed for the changes in the DRAM market.

9 In summary, I just want to emphasize that  
10 the cyclical market of the DRAM is very clear. There  
11 was a sharp demand in late 2000 -- October 2001, that  
12 Internet bubble burst. A lot of companies still were  
13 buying. I mean, this morning they said nobody had  
14 inventories. Cisco had worth of one-year inventory.  
15 Sun Microsystem had \$1 billion inventory. We can  
16 provide that; it's official public information, so we  
17 can provide those. A lot of companies had a lot of  
18 inventory. PC companies maybe, you know, a smaller  
19 inventory, but bigger guys had a lot inventory.

20 So Hynix was not really -- cannot be blamed  
21 for price decline of the meltdown in 2001. Thank you.

22 MR. SWANSON: Good afternoon. My name is  
23 Gary Swanson. I'm senior vice president of sales at  
24 Hynix Semiconductor America. Hynix Semiconductor  
25 America is the U.S. headquarters and sales arm for all

1 of our DRAM manufacturing facilities, those in Korea  
2 and our state-of-the-art production facility in  
3 Eugene, Oregon.

4 I came here today to give you an insider's  
5 view on how DRAMs are bought and sold in the U.S.  
6 market. I have been selling DRAMs to U.S. customers  
7 for more than 17 years, first for Toshiba and then the  
8 last eight years with Hynix. At Hynix Semiconductor  
9 America we focus on our customers' worldwide  
10 requirements. We strategize and plan the total DRAM  
11 needs of our customers, no matter where they want us  
12 to ship. Thus my responsibility is not only for DRAMs  
13 consumed in the United States, but also for U.S.  
14 customers who want DRAMs for worldwide consumption.

15 U.S. customers account for about 35 to 40  
16 percent of the worldwide consumption. But actual  
17 shipments to the U.S. are decreasing substantially.  
18 This just reflects the known fact that many of the  
19 computer companies have moved their production  
20 offshore.

21 Today I want to explain how prices are  
22 negotiated with the largest customers. You need to  
23 understand that sales to the largest customers, what  
24 we call strategic accounts, are pursuant to a long-  
25 term agreement. Essentially, under a long-term

1 agreement, the customer agrees to commit a certain  
2 share of their needs, and the supplier agrees to make  
3 capacity available for that need. Customer and  
4 supplier agree on their respective commitments, are  
5 subject to supplier's performance in the areas of  
6 technology, quality, responsiveness, and price.

7 Accordingly, the price negotiations for  
8 orders take place under the umbrella of a long-term  
9 agreement, which includes many factors. At the  
10 outset, I'd like to make it clear that price  
11 negotiations only happen after a supplier has obtained  
12 qualification status from the customer and has become  
13 a qualified supplier for each particular DRAM product.  
14 The actual negotiations between customer and supplier  
15 generally happens every two weeks.

16 However, the negotiations are not simply  
17 about who has the lowest price. Don't get me wrong.  
18 I'm not saying that price is not important. It's just  
19 that it is not the sole determining factor, as Micron  
20 and Infineon would have you believe. Based on my many  
21 years of experience, customers award business to their  
22 qualified DRAM suppliers based on a number of factors.  
23 Essentially, for all negotiations, the customer  
24 evaluates the supplier's technology, their quality  
25 record, their delivery performance, and price.

1           The supplier is competing in all of these  
2 areas to win the business. Suppliers are always  
3 trying to differentiate themselves by adding value in  
4 each of these areas. Similarly, on the supplier side,  
5 the supplier must take into account a host of factors  
6 during the negotiations, such as the extent of the  
7 relationship with a customer, whether a long-term  
8 agreement is in effect, the quantity being ordered,  
9 the particular type of DRAM products desired and  
10 capability to support it, the position of our  
11 competitors at the customer, the breadth of  
12 qualifications, and trends in the spot market.

13           I note that all of these factors are part of  
14 our deliberative process when negotiating with  
15 customers. And I cannot emphasize enough that the  
16 nonstop negotiation that we have with our DRAM  
17 customers is a very dynamic process. Please remember  
18 that DRAMs are a product for which we must constantly  
19 introduce new generations. I have to take into  
20 account the desire of the customer to have the latest  
21 generation and our company's ability to meet that  
22 customer's delivery schedule for many different  
23 products. And I can tell you there are times when  
24 production difficulties at our Fabs very much limits  
25 my ability to seek more business from certain

1 customers.

2           The key point is that all suppliers are  
3 going through the same process. I also want to talk  
4 about how specific prices are negotiated. Hynix does  
5 business with all the major computer companies and  
6 contract manufacturers, which are by far the largest  
7 U.S. customers of DRAMs. My experience is that these  
8 customers keep confidential the pricing quotes of  
9 individual suppliers, and therefore it is very  
10 difficult for any supplier to learn the precise  
11 pricing of their competitors.

12           Of course, I have heard that our price was  
13 not competitive, or that there were other prices that  
14 were lower than ours. Consequently, I do not know how  
15 Micron and Infineon can complain that they know that  
16 the Hynix price was always the lowest price. This is  
17 simply not true.

18           My final comment today is that I find this  
19 case a bit surreal. Micron and Infineon complain that  
20 they have been materially injured, but the real world  
21 marketplace indicates otherwise. Over the past three  
22 years, Micron and Infineon have been very aggressive  
23 and gained market share in the U.S. and globally,  
24 while Hynix has lost market share. They have  
25 capitalized very well on their relative strengths of

1 financial stability, technology, and low-cost  
2 manufacturing. They are well positioned again to  
3 achieve a high level of profitability, as the DRAM  
4 market is now gaining strength. Prices are rising,  
5 and some DRAM components and DRAM modules are now  
6 being allocated.

7 J.P. Morgan's latest global market  
8 technology letter, June 23, 2003, states, "We believe  
9 it is almost certain that PC and CPU shipments will  
10 deliver their best first half performance since 1999-  
11 2000." Furthermore, DRAM prices have stabilized  
12 earlier than usual this year. Micron and Infineon  
13 will now capitalize on their aggressive investments as  
14 two of the largest DRAM manufacturers in the world.

15 Thank you for your attention, and I would be  
16 happy to answer your questions after our presentation.  
17 Thank you.

18 MR. DURLING: We'd now like to come back and  
19 focus on what this means for the Commission in its  
20 analysis. We want to put these market realities into  
21 the ITC legal context and focus what do these dynamics  
22 tell you about the effect of subject imports on the  
23 U.S. industry. So first we will try to put the  
24 domestic industry performance in the context of these  
25 broader historical cycles.



1           Next we'll consider the specific roles of  
2 subject imports. We will do what the statute compels,  
3 which is focus on the volume and price effects of  
4 subject imports. And then finally we will explore  
5 whether declining imports from Hynix can be considered  
6 the source of any threat.

7           So let's start with the condition of the  
8 domestic industry, but put it in context. It doesn't  
9 make any sense to focus only on the down cycle. In  
10 fact, using the domestic industry's own definitions of  
11 success, we can see that the domestic industry is  
12 doing better now than in prior down cycles. And in  
13 particular, using their own definition, we will focus  
14 on capital expenditures, R&D spending, cash flow, and  
15 access to capital.

16           Let's compare the current downturn to the  
17 last downturn in 1999. As I said, it's misleading to  
18 focus on an overly narrow period of time. At the  
19 outset, I think the most important base level  
20 comparison if you want to focus on operating profits  
21 is to note that in the '96 to '98 period that the  
22 Commission last considered, that the domestic industry  
23 had operating losses, cumulative operating losses, of  
24 \$2.2 billion. And in that case, the Commission  
25 correctly recognized that in a cyclical industry, yes,

1 they may be suffering operating losses, but that must  
2 be put in the context of the business cycle.

3 In this particular business cycle, the  
4 industry is actually doing better than it did in the  
5 '96 to '98 period. I'm not making up this standard.  
6 This is not Jim Durling's standard. This is not  
7 Hynix's standard. This is Micron's own standard for  
8 its financial success. And we can quote CEO Appleton,  
9 focusing on the cash balance, the ability to invest in  
10 technology, having a large enough market share to  
11 spread out the cost.

12 Indeed, a more precise definition can come  
13 from this slide, again from a Micron presentation,  
14 where I'd just like to highlight the key language,  
15 which is Micron has a proven ability to weather  
16 downturns, and that the financial position in the  
17 current cycle trough is stronger than any previous  
18 cycle. We would agree with that. Yes, they're losing  
19 money now. The industry is losing money now, but  
20 that's the nature of the cycles in the DRAM industry.

21 So let's look at some of the specific  
22 factors that Micron has identified as critical to  
23 industry success. Let's start with capital spending.  
24 And if we compare total capital spending over the '96  
25 to '98 period, you can see a total of 2.6 billion,

1       whereas over the 2000-2002 period, total capital  
2       spending is higher both in absolute terms, \$3.7  
3       billion, and as a percentage of revenue.

4               This strong capital spending puts Micron at  
5       the top of the heap in terms of overall DRAM rivals.  
6       This public slide of capital spending highlights that  
7       Micron has been spending a lot more on capital  
8       expenditures than its rivals. In fact, look at who is  
9       spending the money. It is Samsung. It is Micron. It  
10      is Infineon. It is Nanya. Hynix's spending is  
11      actually moderate relative to others in the industry.

12              We see the same pattern if we look at R&D  
13      spending. Over the '96 to '98 period, Micron spent a  
14      total of \$672 million in R&D spending. Yet over the  
15      2000-2002 period, Micron more than doubled the  
16      absolute value of R&R spending, and again was spending  
17      a much higher percentage of its total revenue on R&D.  
18      This is a sign that the industry is indeed well  
19      positioned for the next stage in the cycle.

20              Indeed, Micron highlights the fact that they  
21      have emerged as one of the technology leaders. Who  
22      are the technology leaders, according to Micron?  
23      Micron, Elpidia, Samsung, and Infineon. Two of the  
24      domestic petitioners have been singled out as  
25      technology leaders, but who is missing from this

1 picture? Who has been left behind? It's Hynix.

2 With all of the spending on R&D, with this  
3 emergence as the technology leadership position, it  
4 shouldn't be surprising that Micron has been moving up  
5 the ranks in U.S. patent applications. Again, this is  
6 not a sign of a company that is being starved for the  
7 resources necessary to maintain its technology  
8 leadership.

9 Let's look at cash flow. Again, the market  
10 is in a down cycle. But the last time the market was  
11 in a down cycle total cash generated from operations  
12 was \$1.8 billion. This time Micron has generated \$3.4  
13 billion in cash from operations, again earning a  
14 higher percentage of its revenue as cash from the  
15 operations.

16 All of that comes together, and in the  
17 balance sheet once again we see the same pattern, that  
18 compared to the last downturn Micron is actually quite  
19 well positioned. Again, we took a slide that Micron  
20 had presented to outside investors. And this is  
21 Micron's analysis of its 1998 balance sheet, focusing  
22 on certain key ratios that are a measure of the  
23 success of a company. And by every single one of  
24 these measures, Micron is stronger now than it was  
25 before.

1           So what I take away from this picture is  
2           that Micron, as the single largest member of the  
3           domestic industry -- they alone represent the vast  
4           majority of the domestic industry -- they have done an  
5           excellent job of positioning themselves through this  
6           downturn to be ready for the next upturn.

7           So let's turn now to the volume effect of  
8           subject imports, the statutory mandate that you have.  
9           Okay. First, I would like to highlight that Hynix has  
10          been losing share in the Americas. I mean, obviously  
11          we can't get into the BPI data here. So the closest  
12          proxy we could find was Dataquest information on the  
13          Americas market share, which is on a revenue basis.  
14          But the public data that I'm discussing with you today  
15          illustrates the basic trends that you will see in your  
16          proprietary data.

17          The key message is the same in the Dataquest  
18          data, and it's the same whether you look on a global  
19          or a U.S. basis. Hynix's share of the market has been  
20          falling, and the share of other suppliers has been  
21          growing. Depending on the data source, you may find  
22          slight differences in the magnitude of the increase.  
23          But the basic direction is going to be the same.  
24          Hynix is losing; others are gaining.

25          When you look at your proprietary data, it's

1 very important to remember that Eugene, Hynix's U.S.-  
2 based production facility, had to shut down during  
3 this period. So when we look at Hynix brand sales,  
4 that's including both domestic production in Eugene  
5 and the subject imports from Korea. And you need to  
6 take into account the shutdown at Eugene when you're  
7 looking at the specific trends during the period.

8           When Eugene shut down, it was necessary to  
9 modestly and temporarily increase imports from Korea.  
10 But even when you combine them all together, you will  
11 see a general downward trend in Hynix's share of the  
12 U.S. market. More importantly, this increase in  
13 imports during the period, this modest increase, had  
14 nothing to do with the alleged subsidy, and has since  
15 been reserved when Eugene came back on line.

16           Now this is really important because Hynix  
17 Eugene and Hynix Korea are interchangeable in the eyes  
18 of the customers. Customers don't distinguish the  
19 source of the Hynix chip when they're making their  
20 purchases. So how can it be that Hynix imports  
21 replacing Hynix's own sales in the U.S. -- how can  
22 that be a cause of injury to the U.S. industry? If a  
23 customer was buying from Hynix before, and Hynix  
24 simply substitutes some import for some domestic  
25 production, it's the same company, it's the same price

1 deal with the customer. How can that shift in import  
2 volume have any connection at all to the condition of  
3 the domestic industry? I don't think it can.

4 This highlights the trends of the Americas  
5 market share, and it highlights that during the period  
6 that Hynix was losing market share in the Americas,  
7 both Micron and Infineon on a combined basis were  
8 gaining share by a substantial amount.

9 Now this highlights the lack of any  
10 connection between the Hynix market share, which is  
11 the yellow line here, which is following a stable or  
12 downward trend, and the operating performance of the  
13 domestic industry. When you look at this graph and  
14 when you look at the fact that long before the  
15 problem, long before any of the alleged subsidies in  
16 this case, the domestic industry was in the down  
17 cycle, and they were losing money in the down cycle.  
18 The import level is remaining relatively constant or  
19 declining over the period, but the industry goes  
20 through its cycle. It has a boom, and it has a bust.  
21 But this doesn't have anything to do with the level of  
22 subject imports.

23 As the Commission itself recognized in its  
24 questions this morning, there is a very crucial issue  
25 in this case that cannot be overlooked, and that is

1 the role of nonsubject imports. It's legally wrong  
2 for Micron to try and pretend that these subject  
3 imports don't exist. And I look forward to seeing how  
4 they discuss Gerald Metals in their post-conference  
5 brief.

6 But more importantly for the Commission, it  
7 is factually wrong. In this case, nonsubject imports  
8 are substantial, and they are having a big effect.  
9 They have always been larger than the subject imports.  
10 They have been growing, not falling. Nonsubject  
11 imports often had the lowest price. And this is  
12 critically important. Nonsubject imports are more  
13 than just Samsung.

14 Even if you think that Samsung is a little  
15 bit different -- and if you think that Samsung is a  
16 little bit different, I urge you to read Micron's  
17 testimony in the preliminary phase of this case, where  
18 they went at great lengths to explain how Samsung is  
19 the same. Even if you think Samsung is a little bit  
20 different, there are many other sources of nonsubject  
21 imports in the market. Therefore, it makes no legal  
22 or factual sense to blame subject imports and ignore  
23 nonsubject imports.

24 Now Micron argues that the reason for the  
25 trends at the end of the period is that the petition



1 affected the import levels, and they try to dismiss  
2 the market share trend in 2003 as being driven  
3 entirely by the petition. But what you will see in  
4 the data -- and we will provide this in our post-  
5 conference brief -- is that in fact the subject import  
6 levels continued at comparable levels in the months  
7 following the petition.

8           So there was a drop in subject import market  
9 share, even after imports were continuing. Nonsubject  
10 imports were increasing more, and they were increasing  
11 market share. Relatively, nonsubject imports were  
12 coming into the U.S. market faster than the subject  
13 imports.

14           So in conclusion, I don't see how you can  
15 find adverse volume effects in this case. The subject  
16 import share has always been small and has been  
17 declining. In the U.S. market, other sources were  
18 much more important than Hynix's subject imports. And  
19 there is no correlation between the Hynix market share  
20 and the condition of the domestic industry. So it's  
21 not just the level of imports; it's the relative share  
22 of imports. And the decline has nothing to do with  
23 the filing of the petition. So the decline over the  
24 recent period should be taken into account by the  
25 Commission.

1           I think Micron understands -- Micron and  
2 Infineon both understand that they really don't have a  
3 volume case here. They just don't have a volume case,  
4 and that's why so much of their presentation is  
5 focused on the price effects and an effort to  
6 construct a theory of how a very small volume of  
7 imports can somehow still have a price effect. But  
8 let's look at what the record really shows.

9           Okay. First, given the small and declining  
10 market share, in our view, it's not surprising that  
11 Micron is focusing on the price effects. But the  
12 argument fails both legally and factually. Legally,  
13 Micron cannot rely on price effects outside of the  
14 U.S. market to justify its case. The price effects  
15 must be those associated with the subject imports.  
16 That's what the statute requires.

17           Factually, Micron ignores the role of  
18 nonsubject imports on pricing. They ignore the role  
19 of other suppliers adding substantial new capacity  
20 while Hynix did not. And they ignore the fact that if  
21 you look at the most recent period of time, there  
22 seems to be a recovery underway.

23           Let's start with a bit of an overview. And  
24 what we have plotted on this graph is the average  
25 price trend as reflected by ASPs, average selling

1 prices, both for the period of time the Commission  
2 considered in Taiwan DRAMs, which is the red line, and  
3 the period of time in this case, which is the blue  
4 line. And what this shows is that you see a similar  
5 pattern over time, which is prices are falling over  
6 the period because in both times you were experiencing  
7 the down cycle. You see in our case that prices --  
8 average selling prices were going up in 2000 because  
9 that was the top part of the cycle, and they have been  
10 going down since.

11 But what you also see is the bottoming out  
12 of prices at the end of 2001 and the trending upward  
13 of prices since then. In fact, the upward trend in  
14 ASPs compared to the bottom of the cycle has actually  
15 been stronger in this case than in the prior case.

16 Analysts have noted that the market is  
17 beginning to recover. You heard this morning that no  
18 one is saying that the market is turning around, but  
19 that's simply not true. These are some selected  
20 quotes, and we will take up the Commission on its  
21 request to provide in our posthearing briefs more  
22 information by more analysts showing that there is an  
23 emerging consensus that things are beginning to  
24 change.

25 So here is one example of an analyst noting

1 that the traders are now optimistic about the pricing  
2 levels. Here is another quote highlighting that June  
3 marked the end of the motherboard inventory correction  
4 and was potentially a promising start to a seasonal  
5 build expected to extend into Q3. And most recently,  
6 in a report released just yesterday, J.P. Morgan  
7 predicted that it's almost certain that PC and CPU  
8 shipments will deliver the best first half performance  
9 since the 1999-2000 period. So it's simply not true  
10 to say that everyone in the industry thinks that  
11 things are bad and staying bad.

12 Now when you're looking at pricing trends,  
13 it's very important to look at how capacity levels  
14 have changed, and who has been adding capacity and who  
15 has not, because capacity in this industry translates  
16 into supply. Micron focuses on a very static view of  
17 the world. They focus on Hynix's global size, but  
18 they ignore two critical points of context. The first  
19 is what is Hynix's size relative to others; and  
20 second, how has that size been changing over time.

21 Hynix faces larger rivals. In particular,  
22 Samsung and Micron are both bigger than Hynix. And  
23 Hynix also faces faster growing rivals. Infineon and  
24 Nanya have both been accelerating their presence in  
25 the DRAM market. Hynix has not added significant new

1 capacity over the 2000-2002 period. But at the same  
2 time, others have been adding more capacity. And by  
3 various measures, Hynix's share of the new capacity is  
4 actually extremely low.

5           So what does this mean? In 2002, Hynix  
6 existed with its share of the market. And during  
7 2002, it was a boom year. Since 2002, Hynix has been  
8 losing out relatively capacity and supply. And yet  
9 prices are going down when others are adding the  
10 capacity. Does it make sense to blame a declining  
11 share of Hynix's capacity on the price trends in the  
12 market? I don't think so.

13           So let's look at these different measures of  
14 capacity. In Mr. Tabrizi's presentation, he showed  
15 New Fabs. So you can see that Hynix was not the  
16 company adding New Fabs during this period of time.  
17 Let's look at changes in wafer starts over the period  
18 from 2000-2003. And this is using third-party data  
19 from Strategic Marketing Associates. It's a very  
20 wonderful data set called International Fabs on Disc  
21 that provides a wealth of data about who is adding  
22 capacity and who is not.

23           We went into this data set, and we said,  
24 okay, who is increasing wafer starts, and who is not.  
25 And what it shows is that Hynix Korea actually had a

1 net decrease in wafer starts during the period. Yet  
2 over the same period of time, who is growing? Taiwan  
3 is growing by a large amount. Korea Samsung is  
4 growing by a large amount. U.S. Infineon is growing  
5 by a large amount. Micron is growing by a large  
6 amount. Everyone else is adding new wafer starts.  
7 Hynix of the major suppliers is the odd man out.

8 We also see the same trend if we switch from  
9 wafer starts to total memory capacity. And the way  
10 this data set, IFOD, tracks this information is they  
11 measure electrical functions. So by measuring the  
12 total electrical functions being produced on a monthly  
13 basis, they can simultaneously capture how many wafers  
14 are being started, how large is the wafer, and what is  
15 the geometry of the individual chips. So it is being  
16 collapsed into one measure.

17 What does it show? Again, Hynix is a very  
18 small part of the total increase in capacity over this  
19 period. Taiwan, Korea Samsung, Micron, Infineon --  
20 everyone else is adding much more capacity, much more  
21 memory capacity, than Hynix.

22 So what does this mean for the Commission?  
23 Others have dwarfed the change the Hynix's production  
24 capacity. Taiwan is eight times larger. Samsung  
25 capacity in Korea is five times larger. New Infineon

1 capacity, some of it in the U.S., some of it in the  
2 E.U., is five times larger. Indeed, new Micron  
3 capacity itself is three times larger. In fact, new  
4 capacity added by others, just the new capacity, is  
5 bigger than Hynix's total capacity at the beginning of  
6 this period.

7           How they can blame Hynix for the result of  
8 this is beyond me. Hynix -- yes, Hynix had die  
9 shrinks. Yes, Hynix increased its nominal production.  
10 But in this industry, with everything increasing on a  
11 bit basis all the time, it makes no sense to look at  
12 nominal production capacity. What matters is the  
13 relative share of the production capacity. And by  
14 that measure, by relative capacity, Hynix fell, and  
15 that's why its market share fell.

16           Now pricing also reflects product-specific  
17 factors. The Commission was getting at this with its  
18 questions this morning. I urge you to come back to  
19 our panel because they have a wealth of information  
20 about this. But let me just tell you one of the  
21 stories, one of the product-specific stories.

22           It is well known that DRAMs follow a  
23 learning curve, and so prices are going to decline as  
24 the costs go down. But when there are problems with  
25 product planning or with product mix, that situation

1 can limit the supply, affect the pricing, and affect  
2 the market shares. So let me tell you a story about  
3 DDRs. Here is the price trend from public data for  
4 DDR prices. This is for the 2002 to 2003 period,  
5 okay? And you see a decline and then an increase and  
6 then a decline. I think this is an example of the  
7 kind of different pattern that Commissioner Hillman  
8 was asking about this morning.

9 Okay. What was happening? There is a  
10 story. First, DDR prices rose initially in 2002  
11 because as the demand for this emerging product was  
12 increasing, the supply was tight. Samsung and Nanya  
13 in the first half of 2002 were the only companies in  
14 the market for this product. Micron missed this  
15 window. They had production problems, production  
16 planning problems, and they have admitted as much.

17 Prices began to fall again when the other  
18 suppliers, including Micron, solved technical and  
19 product planning problems and began to supply the  
20 market. So there is nothing surprising that DDR  
21 prices began to fall at the end of the period. When  
22 new products are introduced and there is a mistiming  
23 of how much supply is available for a particular  
24 product, prices will go up or down depending on the  
25 supply/demand balance for a particular product.



1           As I said, Micron admits that it had a  
2           problem with DDR. When Micron was trying to explain  
3           to analysts and explain to the press what was going on  
4           with its loss of market share and its limited volume  
5           of DDR product in the market, they were quite open in  
6           admitting to the press and to the investing world that  
7           the problem is they were caught offguard. And as a  
8           result of being caught offguard, that affected them  
9           quite a bit. It affected both their volume, and it  
10          affected their performance during this period.

11          Now Micron's whole case really boils down to  
12          an argument about underselling. In fact, Micron and  
13          Infineon have both stressed underselling as the  
14          essence of their case. There are limits to what we  
15          can talk about here because it's BPI, but let me just  
16          highlight a few key points. The first is that even if  
17          you look at the most traditional Commission analysis,  
18          kind of broad aggregate level underselling, I think  
19          you'll find no consistent pattern of underselling.

20          But second, I think it's very important to  
21          disaggregate the data because if you do so and your  
22          data allows you to do this, you will see a pattern of  
23          who really is the lowest price supplier in the market.

24          You heard this morning testimony from the  
25          domestic industry that, well, we don't really know who

1 the lowest price supplier is. Guess what,  
2 commissioners? You do. You have better data on who  
3 is the lowest priced supplier in this market than  
4 anyone else because you have a wealth of confidential  
5 data. Don't obscure what that data tells you by doing  
6 kind of broad overall averages. Break it out by  
7 company. Look at who is the lowest priced supplier.  
8 And I think if you do, you will find the results are  
9 very interesting, and that Hynix is not the lowest  
10 price.

11 The other advantage of breaking out your  
12 data is it will allow you to look at the role of  
13 nonsubject imports as the statute and as the courts  
14 have asked you to do. It's critically important not  
15 to ignore the role of nonsubject import price effects  
16 in doing the underselling and the pricing analysis in  
17 this case. You have the data, and you can use it.

18 Hynix was not the price leader in this  
19 market. In fact, in the DRAM market, there is no  
20 clear price leader, that the lowest price varies  
21 depending on the supplier and the product in the  
22 particular point in time. There is no clear pattern  
23 here. And that's why, you know, at a broad level --  
24 again, we can't get into the details. But at a broad  
25 level, the purchasers largely confirm the absence of

1 any clear price leader in this case.

2 And the alleged subsidy in this case did not  
3 change this market reality. The alleged subsidy did  
4 not somehow make Hynix the price leader, okay? First,  
5 you can look at your data and see that it's just not  
6 true. Second, the DRAM industry is not a cost plus  
7 pricing industry. So, yes, even if there were some  
8 effect on the fixed cost for Hynix, the alleged  
9 subsidies in this case had nothing to do with marginal  
10 costs. They had nothing to do with incentives to  
11 increase exports. And so they were much less likely  
12 to affect the net pricing, which is a critical point.

13 Micron and Infineon want to jump from the  
14 conclusion that the subsidies affected the pricing.  
15 They want to blame the subsidies as causing the price  
16 to collapse, but it's just not true. First, it's  
17 legally wrong because the statute requires a focus on  
18 the price effect of the subject imports, not the price  
19 effect of subsidies. In fact, the only mention of  
20 subsidies is in the context of threat. That's why the  
21 Infineon brief focused on threat, because that's where  
22 in the statute the issue of subsidies becomes  
23 relevant. Why? Because the statute says focus on  
24 subject imports.

25 For threat purposes, you don't have actual

1 imports yet. So it is possible that a subsidy might  
2 increase the ability and the incentive to export in  
3 the future. And so imports in the future might  
4 change. And that's the relevance of the subsidy, to  
5 understand whether there is an increased risk of  
6 imports increasing. But the statute always comes back  
7 to are there imports, and that is what the focus of  
8 the statute is about.

9 But it's also factually -- subsidies don't  
10 correlate with the timing of Hynix price changes. I  
11 can't do that in a public setting, but we can do that  
12 in the brief. Second, it's inconsistent with the fact  
13 that Hynix's rate of growth for capital expenditures,  
14 the growth in supply -- they were all well below the  
15 average for other companies in the DRAM industry. So  
16 the subsidy wasn't having any of the effects that  
17 Micron alleges that the subsidy was having.

18 So what are the implications of all of this?  
19 What are the price effects in this case? First, the  
20 mere fact that prices fell doesn't mean very much  
21 because in a down cycle and in an industry like this  
22 prices always fall. Second, the change during the  
23 period, what was different from 2000 was the collapse  
24 in the demand, not a surge in supply. But if you  
25 think there was some effect from an increase in supply

1 in the market, it wasn't by Hynix. Relatively, Hynix  
2 was losing share, not gaining share, and Hynix simply  
3 did not have the resources to expand as aggressively  
4 as others did.

5 So I think the specific pricing data shows  
6 that others had a much more significant effect on  
7 price than Hynix and that the alleged subsidies did  
8 not cause the prices to collapse.

9 Now Micron subsidy theory is really the  
10 centerpiece of their case, and that's why Micron is  
11 focusing on Hynix's global presence. And you heard a  
12 lot this morning about the fact that the mere  
13 existence of Hynix is somehow the cause of all of the  
14 problems. Again, this is legally flawed because the  
15 statute does not condemn the existence of companies.  
16 The statute only targets whether there are subject  
17 imports into the U.S. market that are a problem.  
18 There is no focus on global production by companies  
19 that happen to be your competitor. But also,  
20 factually, Micron is making a static argument that  
21 doesn't focus on the changes taking place over the  
22 period.

23 Let me just briefly discuss the legal flaws.  
24 I think, as the Commission is well aware, the statute  
25 consistently focuses on imports, the volume of

1 imports, the effect of imports on prices, the impact  
2 of imports on the domestic producers. It's not global  
3 production. It's imports.

4 In fact, even in the provision about other  
5 economic factors, they're only relevant only as they  
6 are relevant to the determination regarding whether  
7 there is material injury by reason of imports. So  
8 even the discretionary clause in the statute brings us  
9 back to imports. So it's with good reason,  
10 Commissioners, that you're having trouble fitting  
11 Micron's round theory into a square peg. It just  
12 doesn't work. There is no legal basis to consider  
13 anything other than the effects of the subject  
14 imports.

15 But Micron's theory is also factually flawed  
16 because it's a static argument focusing on Hynix's  
17 existence, ignoring the changes taking place over the  
18 period, the fact that Hynix existed in 2000, even when  
19 the domestic industry was having a boom year. So the  
20 problem can't be Hynix per se. If there is a problem  
21 at all, it has to be changes. But what changed over  
22 the period?

23 Well, demand changed sharply. Hynix lowered  
24 its relative capacity on a global basis, and Hynix  
25 lost market share in the U.S. So how can those

1 changes be the cause of the problem?

2 Now we've talked a bit about the nature of  
3 the subsidy. As I mentioned, these are not export  
4 subsidies. They are at most domestic subsidies. What  
5 really was going on is an allegation that the  
6 government of Korea pressured Korean banks to  
7 eliminate debt, either through debt for equity swap or  
8 forgiveness. This wasn't about someone writing a  
9 check for \$16 billion or \$4 billion or \$2 billion,  
10 whatever the amount is, and it's not fair to say that  
11 but for this subsidy, Hynix would not have existed in  
12 the market, okay?

13 The subsidy did not increase Hynix subject  
14 imports, which have fallen over the period. And  
15 critically important, the assets aren't going to go  
16 away. The subsidy did not change the fact that there  
17 were assets. Even if there had been court  
18 receivership, the supervisor in the court receivership  
19 would have had every incentive to continue operating  
20 the assets. The assets have a value in operation.  
21 They have much more value in operation than they do in  
22 an idle state. So the assets would have been  
23 operating.

24 Indeed, they might well have been sold.  
25 Micron tried to buy the assets. Infineon tried to buy

1 the assets. Even the Chinese expressed interest in  
2 buying the assets. So these assets were not going to  
3 go away. The global supply was not going to go away.  
4 The subsidy also did not have any material effect on  
5 Hynix's capital expenditures during the period.  
6 Again, this is the other prong of Micron's subsidy  
7 theory, that somehow the subsidy made it possible for  
8 Hynix to continue its low level of capital spending.  
9 But this theory is just wrong.

10 First, the subsidies at issue here are  
11 mostly debt restructuring. The overwhelming  
12 percentage of the subsidy is just debt restructuring  
13 and debt forgiveness. Very little of the allegations  
14 involve new funds. In fact, Hynix could completely  
15 fund its capital expenditures entirely out of the case  
16 from its operations.

17 So whether it's Hynix operating the assets  
18 or a new owner operating the assets, they would have  
19 made the same business decision, which is fund the  
20 limited CAPEX out of the cash being generated from the  
21 business. So it makes no sense to say that but for  
22 the subsidy, Hynix would have gone out of business, or  
23 but for the subsidy Hynix could not have maintained  
24 any capital spending during this period.

25 Now here is the data, which shows the EBITA



1 being generated by Hynix's operation during the  
2 period, and the amount of CAPEX being spent on DRAM  
3 and non-DRAM spending. And it shows that the EBITA,  
4 the cash being generated from the operations, was  
5 consistently higher than the very low levels of CAPEX  
6 that Hynix was able to sustain in 2001 and 2002. This  
7 low CAPEX is why Hynix's share of total capacity was  
8 relatively -- Hynix's share of the growth in capacity  
9 was relatively low during the period. They simply did  
10 not have the funds to make the massive investments  
11 that other rivals were making.

12 Let me just turn briefly to threat. I think  
13 one of the changing conditions is Hynix as a weakened  
14 competitor in the DRAM market, okay? This is a key  
15 change over the period that Micron and Infineon want  
16 to ignore. Hynix had lower capital expenditures. And  
17 in fact, much of the new funding, the limited new  
18 funds that Hynix had available -- a lot of it had to  
19 go to servicing debt, not to capital expenditures for  
20 the future. Hynix had slower technology advance. In  
21 fact, Hynix is now behind others in die shrinks.

22 There is no evidence that Hynix is  
23 increasing exports. Hynix has been losing market  
24 share. Hynix has been converting older Fabs to non-  
25 DRAM products. And Hynix has now need to increase

1 exports from Korea because much of the U.S. market can  
2 be serviced by the facilities at Eugene. Remember,  
3 the U.S. market is both shipments to customers outside  
4 of the U.S. and shipments to customers inside the U.S.  
5 Four shipments inside the United States for the  
6 customers that want to consume product in the United  
7 States, Hynix can largely meet that need from its  
8 Eugene facility. And as you heard this morning, a lot  
9 of investment has gone into Eugene to enable Eugene to  
10 meet the vast majority of the needs.

11 So there is no need to increase exports.  
12 And there is no evidence that Hynix is any better  
13 positioned. In an industry where cash and technology  
14 are so critical and the key is where you are relative  
15 to your peers, Hynix is falling behind. They're  
16 falling behind on technology. They're falling behind  
17 on cash. In terms of technology, Hynix was the last  
18 of the big four DRAM companies to produce, mass  
19 produce, 256. Hynix is the last of the big four to  
20 mass produce 512. Hynix has much less production of  
21 the most advanced process technologies.

22 Look at this figure, which I think is quite  
23 illustrative, and it shows the percentage of total  
24 production that various major DRAM companies have at  
25 the finer geometries, okay? These finer geometries,

1 the .10, that means many more chips per individual  
2 wafer, right? You heard that this morning. So the  
3 people who are at the cutting edge of technology, the  
4 people who are using technology to maximize their  
5 capacity expansions, it's Samsung. It's Infineon.  
6 It's Micron. It's even Nanya, the upstart from  
7 Taiwan, that has been surging on the DRAM scene. It's  
8 not Hynix.

9 Same story if you look at cash on hand.  
10 Compared to Micron and Infineon and Samsung, Hynix has  
11 much less cash to pour into future investments. So  
12 from a threat perspective, Hynix simply does not have  
13 the resources to emerge as a threat to this industry  
14 over time.

15 Same story if you look at capital  
16 expenditures, where Hynix's spending has been a  
17 fraction of that of its major rivals.

18 So where does this leave us? You have heard  
19 a lot of information today. But here are what I think  
20 are the key facts that will ultimately drive your  
21 decision in this case. First, in terms of market  
22 share, both in the U.S. and on a global basis, in fact  
23 Hynix has fallen.

24 Second, nonsubject import market share has  
25 always been larger and has been growing over the same

1 period of time.

2 Third, Hynix's global capacity and global  
3 production are falling behind. So the statute  
4 requires you to focus on the U.S. But even if you  
5 step back and look at the world more broadly, Hynix is  
6 still falling behind.

7 Second -- or the next point is that the new  
8 capacity is largely coming from others who have had  
9 the resources to invest in more capital spending, more  
10 investments. U.S. subject imports can have little  
11 effect on global prices, and nonsubject imports are  
12 often the low price source in this market, and that  
13 falling exports from a weakened Hynix cannot possibly  
14 be a threat to the future health and success of the  
15 domestic industry as it moves into the upturn of the  
16 cycle and begins to reap the payoff from all of the  
17 investments that they have made during the down part  
18 of the cycle. Thank you.

19 MR. PORTER: That concludes our affirmative  
20 presentation. Thank you, Madame Chairman.

21 CHAIRMAN OKUN: And thank you. And before  
22 we begin our questioning this afternoon, I want to  
23 take this opportunity to thank the witnesses for being  
24 here today, for your testimony, and for the  
25 information that you have submitted thus far, and for

1 your continued cooperation in this investigation. We  
2 very much appreciate it. And I would I guess repeat  
3 the remarks I made this morning, which is I think that  
4 there was a lot of information provided in the briefs.  
5 There are a number of the factors where I feel like we  
6 have a lot of information on the record. So I may not  
7 ask questions about it, but we'll certainly be looking  
8 at the information that we have collected as well.

9 Let me just throw out a couple of  
10 housekeeping type of issues. Let me ask, Mr. Durling,  
11 in terms of -- I'm very familiar with your brief, and  
12 I just want to be sure in terms of -- there have been  
13 some questions raised in terms of the information you  
14 presented today. There were a couple of charts on new  
15 capacity and others where I'm trying to figure out --  
16 is this new information, information otherwise -- I  
17 mean, the story is consistent with your brief, but I'm  
18 not sure all of the information that you provided  
19 today was in the brief. It may be, but I just want to  
20 make sure we have identified this.

21 MR. DURLING: No. We believe that  
22 substantially all of the information is in the brief.  
23 The information that may not be in the brief was  
24 responding to specific issues that were raised in the  
25 initial briefs by the other side. So we were simply

1 trying to focus the discussion. And our philosophy,  
2 Commissioner Okun, has always been to simply sort of  
3 -- the more, the better. The sooner we can get you  
4 the information so that you can begin to analyze it,  
5 the better. And if we have information that we can  
6 give you now, better to give it to you now so that you  
7 and everyone else has more time to analyze the  
8 information and to deal with it.

9 We provided in our brief everything that we  
10 had at the time that we were focusing on, and that has  
11 just been our approach.

12 CHAIRMAN OKUN: Okay. Well, certainly the  
13 Commission --

14 MR. DURLING: You have lots of information.

15 CHAIRMAN OKUN: -- has lots of information.  
16 We take a lot of information. I think it would just  
17 be helpful if you can identify with staff what  
18 information was new here so that we can be sure --

19 MR. DURLING: Sure. We would be happy to.

20 CHAIRMAN OKUN: -- that we understand what  
21 has been on the record, what is on the record so that  
22 the petitioners also have an opportunity to respond.  
23 I greatly appreciate that.

24 Then, Mr. Tabrizi, you had also mentioned  
25 publicly available data on inventories --

1 MR. TABRIZI: Yes.

2 CHAIRMAN OKUN: -- that you can submit for  
3 the record.

4 MR. TABRIZI: Yes. I can do a search and  
5 find out about those. But I am sure I can find it for  
6 you.

7 CHAIRMAN OKUN: Okay. Are those inventories  
8 on -- when you referenced it, I wasn't sure if you  
9 were talking about PC inventories or --

10 MR. TABRIZI: No, no. The actual -- you  
11 know, for example, at Cisco, they bought a lot of  
12 products because they felt that they were going to  
13 ramp up a lot of product, and at that time there was a  
14 shortage. So they were building inventory. When the  
15 whole, you know, Internet collapsed, they had like a  
16 worth of one year of supply. I mean, based on the old  
17 forecast, it could have been just maybe a three months  
18 of inventory. But when it collapsed, they had the  
19 worth of one year inventory.

20 I can go back and find out, and we can get  
21 testimony from them that they had a lot of inventory  
22 at the end of 2000.

23 MR. SWANSON: Also, a lot of times -- you  
24 know, I think Mike Sadler pointed out it's a lot of  
25 the PCs just pulled from a hub. But also, there are

1 some subcontractors that had substantial inventory as  
2 well and had to negotiate with their, you know,  
3 manufacturer, you know, how they were going to deal  
4 with that huge inventory that they had accumulated in  
5 2000. And there are some where I think we can maybe  
6 find some information on that.

7 CHAIRMAN OKUN: Okay. I will take a look at  
8 that. And obviously, you know, part of this is making  
9 sure we're looking at -- that it's an inventory  
10 relevant to the subject parts we're looking at. So I  
11 will look forward to seeing that in your post-hearing  
12 brief.

13 Let me turn then if I could -- and either  
14 Mr. Swanson or Mr. Tabrizi -- and ask you about some  
15 of the things raised this morning with regard to  
16 pricing, and first in reference to the most-favored  
17 customer clauses. There were two charts, public  
18 charts, that I assume you have seen at this point, one  
19 on the most-favored customer clauses and one on  
20 blended scaling. Can you just if you would tell me  
21 are you familiar with these terms with your customers?

22 MR. SWANSON: Well, I've never heard of the  
23 blended scaling before, but definitely MFC has been  
24 around for at least eight to ten years. That's not an  
25 uncommon term. Blended scaling I think might be an



1 Infineon term for just how some prices get calculated  
2 at an OEM.

3 CHAIRMAN OKUN: Okay. And could you provide  
4 an estimate of how many of your contracts with PC OEMs  
5 where you would -- where most-favored customer clauses  
6 would be in effect?

7 MR. SWANSON: I'd say that the majority have  
8 a clause similar to that. Basically, most of the  
9 clauses state that for similar volumes that you would  
10 supply a similar price. So it's pretty consistent in  
11 the industry.

12 CHAIRMAN OKUN: Okay. And then if that's an  
13 accurate description of the industry, tell me if you  
14 could -- and Mr. Durling and Mr. Porter, you can  
15 comment as well. I mean, what the panel this morning  
16 was arguing is that if you look at Hynix's volume in  
17 the market, that the price effect, if you will, is  
18 magnified because of these MFCs, where you have -- I  
19 mean, I guess you can call it down a trickle-down.  
20 I'm not sure exactly of the right description, but  
21 that more goes on the market with a small player than  
22 in another industry that we may be looking at, which  
23 wouldn't have these similar type clauses.

24 MR. SWANSON: Well, the supply -- and I  
25 think Mr. Sadler brought it up. When you're in for

1 large volume purchases of the PC OEMs, everybody's  
2 price -- and I think he mentioned that was  
3 substantially the same. That's true. That's what  
4 happens.

5           There are occasions where some, you know,  
6 competitor may get very aggressive and get a price  
7 that has a ripple effect. I mean, we've seen that  
8 from Micron and from Infineon, where we've had to  
9 become -- you have to meet competition. So the only  
10 thing I would disagree is that it's not Hynix that was  
11 leading the charge all the time. It definitely was --  
12 you know, that's a practice that has been there MSC,  
13 and basically everybody -- I mean, DRAMs, you really  
14 have to be competitive on price to be in the ballgame,  
15 and then other things differentiate your capabilities  
16 and market share. It's really the quality. It's the  
17 products you have. Those are the things that really  
18 differentiate yourself. Price is pretty much a given.  
19 And that's what you have to have that to compete. But  
20 you differentiate in the other factors.

21           CHAIRMAN OKUN: Okay. Mr. Porter?

22           MR. PORTER: I'll just add a quick, quick  
23 thought. I think Micron and Infineon are actually  
24 creating what we call a red herring. They're talking  
25 about the effect of a low price possibly being a

1 little bit magnified. And given that Hynix doesn't  
2 agree that these clauses exist, the real question is  
3 who has the low price. And as Mr. Durling said -- and  
4 we can't get into it too much because of  
5 confidentiality -- the lowest price is not Hynix. And  
6 you have the ability to do that analysis. And I  
7 submit when you do that analysis, you'll see that, and  
8 you'll see that others have been the lowest price, and  
9 they're the ones creating this magnifying effect that  
10 Micron and Infineon are talking about.

11 So there is not disagreement that there may  
12 be this effect of the price. The question is who has  
13 the lowest price.

14 CHAIRMAN OKUN: Mr. Tabrizi.

15 MR. TABRIZI: If I just may add to that  
16 point. Frankly, when '99 merger of LG and Hynix  
17 happened, our competitor felt that our financial  
18 situation is in a bad situation, so they really tried  
19 to push Hynix out of the market. And that's how they  
20 were really aggressive in their pricing. So we'd  
21 really like you to go and investigate the pricing.  
22 They were pricing Hynix out of the customer. They  
23 said Hynix cannot survive any longer. We have to push  
24 them out. So they were aggressive on pricing.

25 Yeah, of course, their chart is accurate.

1 If Hynix is always the lowest price, and that formula  
2 -- of course, that's the theory that everybody knows.  
3 But the issue is we were not the low cost. They  
4 really tried to push Hynix out of the business.

5 CHAIRMAN OKUN: Okay. Well, obviously we  
6 are constrained by what we can talk about in the  
7 public setting. The Petitioners, I think, referenced  
8 this morning -- I had asked them about the portions of  
9 your brief where you attempt to do a disaggregated  
10 analysis. They take issue with the information that  
11 you have there. So I assume we will see more of this  
12 in the post-hearing.

13 But help me if you will in terms of just  
14 what the statute tells us about underselling just  
15 generally. When we look at the staff report and what  
16 information we've collected -- does the disaggregated  
17 analysis change how we look at underselling? What  
18 does it do in terms of our analysis here in this case?

19 MR. DURLING: Maybe I'll kick that one off.

20 CHAIRMAN OKUN: It's always good to do with  
21 the tough question.

22 MR. DURLING: Yeah. The statute requires  
23 you to look at the underselling. And the Commission  
24 has adopted certain methods that it uses in various  
25 cases. But the traditional methods often reflect the

1 reality that you may have too much information to do  
2 anything other than kind of a simple average, okay?  
3 So in a traditional case, you'll do an average  
4 domestic price and an average import price because you  
5 often don't have any alternative.

6           If you have, you know, 10 or 20 or 30  
7 different domestic producers and as many foreign  
8 producers, you really could not do anything more than  
9 that. Our basic point, and the way we think you  
10 should approach the pricing analysis in this case, is  
11 to -- since everyone agrees that there are a handful  
12 of major players, and since you have the data on that  
13 handful of players, kind of disaggregate and look at  
14 the analysis. It's the same basic approach. Look at  
15 the trends, look at the level of kind of  
16 underselling/overselling. But do it on a supplier by  
17 supplier basis. And when you look at it, look at who  
18 is the lowest, and then look at whether a change is  
19 taking place.

20           You know, again, we can't describe the  
21 details because of BPI. But if you see a pattern of  
22 an extended period of time where one company is at a  
23 higher price and another company is at a lower price,  
24 but there is no change; they're all just kind of  
25 trending along at the same price level -- to me, what

1 that is telling you is that each customer has found a  
2 niche, and those two prices are obviously not  
3 competing with each other in the same sense of sort of  
4 head to head competition because you would not expect  
5 to see those kind of sustained price differences.

6 If you see sustained price differences, that  
7 means that the price of the lower priced item is not  
8 having any effect on the price level of the other  
9 item. The statute does not require aggregate U.S.  
10 prices to determine underselling. It simply says  
11 examine underselling. And the Commission has adopted,  
12 if you will, an administrative practice because a lot  
13 of the cases, there are just too many suppliers.

14 But when you have an industry where Micron  
15 itself -- and I think Infineon said, we're just four  
16 players. The four players here you need to be  
17 concerned about, you have the data. And so you have  
18 this anomalous situation -- or theoretically. Again,  
19 I can't talk -- but anomalous situation where you  
20 could have Micron, Hynix, Infineon. In every case  
21 theoretically where Micron's are higher, then Hynix,  
22 then Infineon. When Infineon's the lowest price in  
23 every single case, theoretically, yet the weight  
24 average is such that Hynix is a bit lower. And I'm  
25 saying the statute doesn't require you do a weight

1 average.

2 Now you've done that for administrative  
3 convenience in the cases, but it's not required. And  
4 in particular in this case, we don't think you should  
5 do it.

6 CHAIRMAN OKUN: Mr. Tabrizi.

7 MR. TABRIZI: Yeah. We should not just look  
8 at the average pricing because right now, for example,  
9 DDR 256 meg, the 256 megahertz version selling for \$3,  
10 the 333 megahertz version selling for \$4, and the 400  
11 megahertz version is selling at \$5 or \$5.10. So if  
12 our volume is more of 256, our ASP will be around \$3  
13 versus \$5 or others. So there is a difference in ASP.  
14 You have to look at it case by case.

15 CHAIRMAN OKUN: Okay. Well, my red light  
16 has come on, so I'm sure I'll have an opportunity to  
17 come back some other questions. Vice Chairman  
18 Hillman.

19 VICE CHAIRMAN HILLMAN: Thank you. And I  
20 too would like to welcome this panel and would thank  
21 you for the wealth of information that was provided in  
22 the prehearing brief. It's extremely helpful to have  
23 it laid out so thoroughly. We appreciate it.

24 I guess if I can start, first of all, just  
25 to make sure I'm understanding your sense of the

1 proper way that we should be looking at this data  
2 because a lot of your argument -- and let me start  
3 with the arguments on demand. I mean, as I'm looking  
4 at these charts on derived demand as well as, you  
5 know, this issue on the growth of the rate of demand,  
6 as I understand the data that you have presented to  
7 us, it is all in value terms, not in quantity terms.

8 MR. TABRIZI: The only -- that one that  
9 shows the growth rate and the value, that's value.  
10 But this one which shows the PC, that's the growth  
11 rate.

12 VICE CHAIRMAN HILLMAN: This is in volume  
13 terms.

14 MR. TABRIZI: This is in volume terms,  
15 right. PC shipments -- shipment means unit. And DRAM  
16 revenue is in -- so the blue line is value. The red  
17 line is the unit.

18 VICE CHAIRMAN HILLMAN: Is units. Okay.  
19 Part of the reason I'm asking that -- I will be honest  
20 -- is it's not clear to me, again where you have this  
21 issue of, you know, you can use 200 and whatever  
22 bits --

23 MR. TABRIZI: Right.

24 VICE CHAIRMAN HILLMAN: -- to substitute for  
25 256. You can use two 256s -- not always, and I'm not



1 suggesting always -- to substitute for a 512. I'm  
2 concerned about whether this issue of looking at it  
3 solely on a value basis is really appropriate because  
4 I will say if I look at our data -- and again, I  
5 regret that we can't go into the specific numbers --  
6 there is no question on a volume basis that we have  
7 not seen a decline in demand. We have seen a fairly  
8 substantial increase in demand over the period.

9 Now maybe that's less of an increase than  
10 you might have said was normal at this point in the  
11 cycle. But in talking about it, Mr. Durling, you  
12 commented a number of times, the collapse in demand.

13 MR. DURLING: Right. And again, I'm looking  
14 at data that is showing fairly hefty increases on a  
15 volume basis in demand over the entire POI.

16 MR. DURLING: Right. A couple of comments,  
17 Commissioner Hillman. First, I think it's important  
18 when you're looking at demand variables to distinguish  
19 measures of kind of bit production, right? When you  
20 just look at the total bits being consumed, that's a  
21 measure of bit production. The demand figures that we  
22 were providing you were kind of the underlying demand  
23 figures. So in other words, okay, are people shipping  
24 more PCs or fewer PCs?

25 Okay. So even though you have fewer -- you

1 may have fewer PCs. You may have a nominal increase  
2 in the bit production that's reflecting the migration  
3 from, you know, 128 to 256. So you have more bits  
4 being produced, but the total number of chips being  
5 sold, the value of the chips being sold, that is what  
6 matters to the industry, and that is going down.

7 So if you have assumptions that sort of  
8 growth is going to go along at this pace, and then if  
9 it drops off relatively, that is going to have a big  
10 effect. The demand for the product has gone down.

11 VICE CHAIRMAN HILLMAN: What I'm hearing you  
12 tell me -- and again, this really is I think a fairly  
13 big difference. I mean, what we heard this morning  
14 very clearly is the domestic industry's view that we  
15 really should be looking at all of this data on a bit  
16 basis. I mean, every way we do every comparison  
17 should be on -- you know, the denominator should  
18 always be divided by the number of bits because that  
19 is the only way you can get around all of the various  
20 double and triple counting issues as well as trying to  
21 understand what is really going on given -- again, I'm  
22 not going to say the prices are always exactly double,  
23 but there is clearly an effect in terms of the amount  
24 of bits that are being sold.

25 MR. DURLING: Right.

1                   VICE CHAIRMAN HILLMAN: And yet I'm hearing  
2 you saying no, no, no. I should be looking on it on  
3 the number of PCs, which, you know, some may contain  
4 again one 512 as opposed to two 256s as opposed to,  
5 you know, four 64s. I mean, it's not clear to me that  
6 --

7                   MR. DURLING: No. Actually, I think the --  
8 here is at least our view. We agree that it is  
9 appropriate to look at things like market share on a  
10 bit basis because it is the only way that you can get  
11 a uniform comparison of market share. So are subject  
12 imports going up or going down? Yes. That has to be  
13 done on a bit basis.

14                   Our point is simply that when you're looking  
15 at the question of demand, when there is clear  
16 evidence that there was a sharp demand drop, if you  
17 look at the underlying components of the demand, and  
18 if you look at what all the analysts have commented,  
19 and if you look at Micron's own testimony, the mere  
20 fact that nominal bits have increased does not take  
21 away from the fact that there was a big change in  
22 2001, which is demand in 2001 for DRAMs was weaker  
23 than it was in the prior periods. And the fact that  
24 nominal bit growth continued to go up doesn't take  
25 away from that basic fact.

1                   So I guess all I'm saying is that the  
2                   general statement you heard this morning that  
3                   everything needs to be done on a bit basis needs some  
4                   qualification because if you look at demand on a  
5                   purely bit basis you'll draw the wrong inference.  
6                   That's the only point that we're making.

7                   VICE CHAIRMAN HILLMAN: Mr. Porter.

8                   MR. PORTER: I'm sorry. Very quickly,  
9                   Commissioner Hillman. Just to let you know, this idea  
10                  that there was a collapse in demand is not Willkie  
11                  Farr and Gallagher. It's not even Hynix. It's the  
12                  industry analysts. But most importantly, it's Micron  
13                  itself. And again, let's go back to two slides that  
14                  we put up there. The first is this one, when Micron's  
15                  own slide showed all the cycles going back in time.  
16                  And underneath it, they put the reason for the  
17                  downturn in the cycle.

18                  The only one that said essentially collapse  
19                  in demand was the one in 2001. That's that slide.  
20                  Then this slide here, where Mr. Appleton himself says  
21                  fundamental shift, I think, in the demand profile.  
22                  That's Mr. Appleton talking about a collapse in  
23                  demand.

24                  So this idea that there has been a recent --  
25                  a new collapse in demand, it's not us. It's the

1 industry itself.

2 VICE CHAIRMAN HILLMAN: Mr. Tabrizi.

3 MR. TABRIZI: Commissioner -- Vice Chairman,  
4 let me explain. PC, as they said, it drives about 75  
5 percent of the DRAM consumption. And the DRAM value  
6 inside each PC, the value is anywhere from 3 percent  
7 to 10 percent of the cost of PC. It depends on the  
8 situation, if you're in an oversupply situation or  
9 undersupply situation.

10 So when the DRAM -- when the PC growth drops  
11 like this, there are more DRAMs because DRAMs annually  
12 are growing by about 40 percent if there is no new  
13 capacity because by shrinking you get about 40 percent  
14 more output. So when the demand is below 40 percent,  
15 if you don't have any new capacity, you have  
16 oversupply.

17 But the electronic -- in terms of  
18 percentage, when the electronic volume comes down, as  
19 a percentage the DRAM percentage goes down, too. And  
20 also, there is not enough quantities of the PCs or  
21 computers. So as a result, we have to lower our  
22 prices in order -- in terms of megabyte per box to be  
23 able to fit in this lower cost PCs.

24 VICE CHAIRMAN HILLMAN: Okay.

25 MR. TABRIZI: It is a percentage of --

1                   VICE CHAIRMAN HILLMAN: No. I appreciate  
2 that. I appreciate that. I guess, Mr. Durling, to  
3 sort of follow on on this issue of whether we really  
4 are looking at volume versus value. I mean, you noted  
5 on one of these slides that subject imports had been  
6 falling over the POI. And again, this is hard because  
7 of course all the raw numbers are confidential. But  
8 again, if I look on a quantity basis -- I'm trying to  
9 square the data that I'm looking at, other than for  
10 the interim period, with that statement that imports  
11 have been falling over the period.

12                   MR. DURLING: I guess our point,  
13 Commissioner Hillman, is really simple, that in prior  
14 cases involving this industry, the Commission has  
15 always recognized that nominal growth in bits need to  
16 be put in the context of the fact that bits are always  
17 increasing. And all we're saying is that we agree  
18 with those conclusions from the prior cases and that  
19 we don't think Micron and Infineon in this case have  
20 presented any reason to depart from the prior  
21 recognition that you need to kind of step back from  
22 just nominal bit growth and sort of understand what  
23 that really means.

24                   So, for example, if you have an increase in  
25 the number of bits being imported, that isn't a

1 particularly meaningful fact if the market share on a  
2 total bit basis had been going down because the bits  
3 are always increasing. Bit supply is always  
4 increasing. Bit demand is always increasing. Bit  
5 import is always increasing. On a bit basis,  
6 everything is always increasing. So the only way that  
7 you can put this in context is to look at it on a  
8 relative basis. And that has been the consistent  
9 analytic paradigm the Commission has used in the past,  
10 and we would support using that same paradigm again in  
11 this case.

12 VICE CHAIRMAN HILLMAN: Well, again here is  
13 one of the difficulties of having a lot of it  
14 confidential because I'll be honest. Even, you know,  
15 the charts that you showed in terms of market share  
16 trends -- again, I appreciate your effort to use  
17 public data to do it so that we can say it. Again, if  
18 I look at the confidential data, it would not  
19 necessarily show that same trend.

20 MR. DURLING: Right. But that's as we --  
21 and again, as we discussed in our brief, because it is  
22 proprietary, there are specific proprietary factors  
23 that we think the Commission needs to take into  
24 account. And so our brief tries to account for them.  
25 We urge you to resolve those particular issues with

1 the staff. And I think when you look at all of the  
2 details, you'll see that on -- if you compare 2003 and  
3 2000, the trend is pretty much as we have described  
4 it.

5 MR. PORTER: Commissioner, if I -- very  
6 quick.

7 VICE CHAIRMAN HILLMAN: Mr. Porter, very  
8 quick because the red light is on.

9 MR. PORTER: Commissioner Hillman, just  
10 because of the public hearing we had to use public  
11 data. And so in the public data is the data the way  
12 the industry thinks about it, which is on a brand  
13 basis, okay? And so it is a correct statement both in  
14 terms with respect to market share of how it should be  
15 looked at. With respect to Hynix's brand in the  
16 Americas or U.S. market, it has been falling over  
17 time. That is correct public data, confidential data.

18 Where you have your problem that you're  
19 looking at, because I know what you're looking at, and  
20 we noted it up on the screen -- there was a little  
21 shift in the way Hynix supplied the U.S. market.  
22 Because of the temporary shutdown of its U.S.  
23 manufacturing facility, it had to import more. So  
24 yes, you're seeing a little bit, you know, but it's  
25 really small, and that's the reason. But the way the



1 industry looks at it, as Mr. Durling commented, the  
2 way customers look at it, it's Hynix. And Hynix's  
3 share of the market has been decreasing. And that's  
4 both based on confidential data and the public data.

5 VICE CHAIRMAN HILLMAN: Okay. Thank you.

6 CHAIRMAN OKUN: Commissioner Koplan.

7 COMMISSIONER KOPLAN: Thank you, Madame  
8 Chairman. I too want to thank you all for your  
9 detailed presentation. I want to start by saying that  
10 I'm having the same struggle that Vice Chairman  
11 Hillman is having. I'm looking at table C-1,  
12 alternate, that went out to you all on June 12th. And  
13 I know it's BPI. But you have got this -- Mr. Durling  
14 and Mr. Porter. And I know you've been able to look  
15 at it, okay? And I'm hearing and I'm seeing your  
16 tables that are in front of me. But that's not this  
17 table, obviously. It can't be.

18 What I am seeing in table C-1, alternate, is  
19 that during the period examined -- I can't get into  
20 the numbers. During the period examined, Hynix's  
21 market share as a percent of U.S. consumption quantity  
22 -- I'm talking about the period 2000 through 2002.  
23 I'm taking out the interim period now. During the  
24 years 2000 through 2002, its market share as a percent  
25 of U.S. consumption quantity increased. Its market

1 share as a percent of U.S. consumption value  
2 increased. And U.S. shipments quantity and ending  
3 inventory quantity all increased.

4 I recognize the fact it decreased in the  
5 interim period. But from the standpoint of evaluating  
6 this from present injury test, how do I ignore these  
7 increases -- and I can't get into the numbers here.  
8 But this is not what -- the same thing. If I didn't  
9 have this and I was just following your charts, okay,  
10 I wouldn't be asking the question.

11 MR. DURLING: Sure.

12 COMMISSIONER KOPLAN: But I am having the  
13 same struggle that the vice chairman is having.

14 MR. DURLING: Okay. I think, Commissioner  
15 Koplan -- I think you should focus on two things.  
16 First, you need to look at the magnitude of the change  
17 taking place. And again, we can't get into the  
18 specific numbers, but the magnitude of the change --

19 COMMISSIONER KOPLAN: Let me just stop you  
20 for a second. You do concede that the things I've  
21 just said are true when you look at the charts.

22 MR. PORTER: Absolutely, Mr. Koplan, yes.

23 MR. DURLING: The chart is --

24 COMMISSIONER KOPLAN: Mr. Porter does.

25 MR. DURLING: Well, then I concede it, too,

1 because the chart is the chart. But first, the  
2 magnitude of the change is well within the range that  
3 the Commission has previously found to be not  
4 significant because of a variety of circumstances.  
5 But second and more importantly, it's the point about  
6 Eugene, that you have the authority, and you should  
7 take into account when you're looking at those numbers  
8 -- take into account the fact that Eugene was shut  
9 down. And it surely cannot have been then intent of  
10 the statute, either the letter or the spirit of the  
11 statute, to basically impose penalties when a U.S.  
12 operation has to shut down and a single company  
13 engages in some substitution for a limited period of  
14 time.

15 That's why from our perspective the interim  
16 data, at least on market share, is so critical because  
17 that's a benchmark of once Eugene is back up in  
18 operation what is in fact kind of a benchmark of what  
19 level of subject imports can you expect in the market.  
20 So our point is --

21 MR. PORTER: Commissioner Koplan, if I may  
22 suggest one thing, it would crystalize this point. In  
23 the chart that you have, if you go in to domestic U.S.  
24 producers' share --

25 COMMISSIONER KOPLAN: When you're talking

1 about the chart, you're talking about table C-1?

2 MR. PORTER: I'm talking about that chart,  
3 okay? If you look at the U.S. producers' share, take  
4 out Hynix. Add it to the Hynix share that you're  
5 talking about, and the trends that you see here will  
6 appear. Now you can't do it in that chart  
7 specifically, but the data behind that chart give you  
8 the ability to do that. The point is Hynix's U.S.  
9 production in the first year of the period was far --  
10 trance was far larger than the increase that you're  
11 seeing on that chart.

12 MR. DURLING: And we promise to do all of  
13 this --

14 COMMISSIONER KOPLAN: The purpose of this  
15 chart -- well, I don't call it a chart. I call it a  
16 table. The purpose of this table was anticipating  
17 what was going to happen in the final determination  
18 with Samsung.

19 MR. PORTER: Yes, Commissioner Koplan.

20 COMMISSIONER KOPLAN: And that is reflected.  
21 That is why there is this alternate table C-1.

22 MR. PORTER: Yes, Commissioner Koplan. But  
23 the staff followed the Commission's preliminary ruling  
24 that Hynix's U.S. facility should be part of domestic  
25 production. So that's why we're saying the table is a

1 bit skewed from a brand standpoint, ignoring country  
2 of origin of the wafer, of the DRAM. And what I'm  
3 saying is if you look at it the way the industry does  
4 on a brand standpoint, just Hynix's production, the  
5 trends that we provided today will appear.

6 COMMISSIONER KOPLAN: Are you arguing that I  
7 should decide in the final determination that Hynix  
8 should be excluded as a related party from the  
9 domestic industry?

10 MR. PORTER: Honestly --

11 COMMISSIONER KOPLAN: I mean, are you  
12 suggesting that I should reverse myself on that?

13 MR. PORTER: No, Commissioner, I'm not. I'm  
14 just explaining -- I can see you're troubling --  
15 you're seeing stuff here. You're not seeing it on  
16 your table. And I'm saying you would see it on your  
17 table if you made the two the same basis. Make both  
18 tables the basis of brand, and they will align. They  
19 will appear.

20 COMMISSIONER KOPLAN: I appreciate what  
21 you're saying, Mr. Porter. I think it would be very  
22 helpful if you could expand on those charts with a  
23 narrative in your posthearing submission because I  
24 understand what you're saying, but I'm not there at  
25 this point.

1 MR. PORTER: I understand. We'll do that.  
2 Thank you.

3 COMMISSIONER KOPLAN: Thank you very much.

4 COMMISSIONER KOPLAN: Let me pick up with  
5 regard to the related party issue. Let me ask these  
6 questions. Do officials at Hynix Semiconductor  
7 Manufacturing America, HSMA, do they make independent  
8 decisions regarding what to produce, production  
9 operation levels, capital expenditures, research and  
10 development, and capacity and process technology? Mr.  
11 Tabrizi?

12 MR. TABRIZI: Yes, sir. HSMA is our  
13 subsidiary, but all the decision, in terms of itself  
14 and where we upgrade, comes from headquarters,  
15 corporate.

16 COMMISSIONER KOPLAN: Comes from?

17 MR. TABRIZI: Corporate, which is Hynix  
18 Semiconductor, Inc.

19 COMMISSIONER KOPLAN: Comes from Korea?

20 MR. TABRIZI: Korea, yes.

21 COMMISSIONER KOPLAN: Okay. Is there any  
22 documentation that you can provide that would back  
23 that up? The kinds of things I'm interested in are,  
24 for example, annual business plans, statements or  
25 affidavits, or any documents created contemporaneous

1 with the events that you're talking about?

2 MR. TABRIZI: Definitely. We consider  
3 Eugene as our very strategic manufacturing location  
4 and we try to take care of it very much. So, we can  
5 provide a lot of documents that the Korea includes  
6 Eugene as part of their overall production. We can  
7 provide a lot of documents showing --

8 COMMISSIONER KOPLAN: I would appreciate  
9 that.

10 MR. TABRIZI: No problem.

11 COMMISSIONER KOPLAN: Coming back to a  
12 question I had this morning, in the preliminary  
13 determination, the Commission focused on bits for  
14 purposes of assessing the volume of imports, because  
15 total bits were a uniform measure of the quantity of  
16 DRAM products. You heard this morning, I asked the  
17 Petitioners whether they agreed with that or thought  
18 that there was a better way to assess volume, and they  
19 said that this was the best way. Do you agree with  
20 that?

21 MR. TABRIZI: Yes. We agree with the bits -  
22 - I mean, the bits are growing. The price is  
23 variable, because there are different technology.  
24 But, the total bits are fixed. So, I think bits is a  
25 good measurement.

1                   COMMISSIONER KOPLAN: Thank you. In our  
2 preliminary determination in this investigation, the  
3 Commission noted that sales to major OEMs are usually  
4 on a contract basis, but that these contracts of  
5 multiple shipments generally do not specify price and  
6 quantity, but may specify the share of overall  
7 purchases awarded to a supplier. Within the contract  
8 period, price and quantity are determined for shorter  
9 intervals of one week to three months. To what extent  
10 are the prices ultimately paid under such contracts  
11 influenced by price changes in the spot market? Mr.  
12 Swanson?

13                   MR. SWANSON: Certainly spot is one of the  
14 indicators that everybody looks at, because it's a  
15 public type of process where you can see what's  
16 happening out in the marketplace. So, that's not the  
17 only determinative, but that's probably the most  
18 public that people use.

19                   COMMISSIONER KOPLAN: Thank you. On page 60  
20 of your pre-hearing brief, you state that the DRAM  
21 market is the quintessential global market. If prices  
22 are set globally, as you contend, won't customers, who  
23 are increasingly moving offshore, simply purchase  
24 their DRAMs on the world market?

25                   MR. SWANSON: What the large PC OEMs do is



1 that they basically negotiate -- the U.S. PC OEMs  
2 negotiate in the United States. And, basically, even  
3 the use of contractors, at some time, they might not  
4 even be the actual purchaser of the contractor even  
5 taken product from. But, more and more, as you  
6 mentioned, has moved offshore; but, they do -- one  
7 price is negotiated in the United States and they  
8 spread that pricing throughout their facilities,  
9 whether they're their own facility or the  
10 subcontractor that they're having build their product  
11 for them.

12 COMMISSIONER KOPLAN: Thank you, Mr.  
13 Swanson. Thank you, Madam Chairman.

14 CHAIRMAN OKUN: Let me ask, if I could, I  
15 guess, Mr. Durling or Mr. Porter -- this goes to the  
16 question of how we regard the subsidy for purposes of  
17 our determination, and I know that you answered this,  
18 in some detail, in your presentation. But, I guess  
19 the one thing that continues to strike me about this  
20 is, on the one hand, we talked about this global  
21 market and global pricing. And one of the arguments  
22 that you've made is with this global pricing, it's not  
23 about Hynix; it's about everybody else, right, and  
24 that's the condition of competition, I guess, in this  
25 industry.

1                   And as I hear that, I keep thinking about,  
2 well -- I mean, that makes it almost too easy, because  
3 it's to say, well, on the one hand, it's global and  
4 it's global pricing and, therefore, we won't attribute  
5 anything that's going on globally to the U.S. market,  
6 because the statute tells us we've got to look at  
7 these subject imports. Is that really what are  
8 determination is about, when the statute really does  
9 ask us to look at other economic factors and what's  
10 going on? I mean, I don't think we have blinders on.  
11 I think it is subject imports. But, I have a hard  
12 time squaring when you're arguing global prices,  
13 global production, global players, where when it gets  
14 to how I make my determination, I can't take what the  
15 subsidy may or may not be doing in that context int  
16 account.

17                   MR. DURLING: Commissioner Okun, our  
18 position is that the statute requires you to focus on  
19 subject imports. And when you're making that  
20 determination, of course, you step back and try to  
21 understand it, in a global context. But, in our view,  
22 the relative statutory inquiry is, what does the  
23 subsidy tell you about what's going to be happening  
24 with subject imports. So, in our view, it's with the  
25 purpose that the focus on the subsidy is in the threat

1 section. I mean, that's why we think the discussion  
2 of the relevance of the subsidies in the threat  
3 section.

4 I think it's important to understand that  
5 the U.S. statute is in the context of a broader  
6 overall framework, okay. And the U.S. countervailing  
7 duty statute was never intended to be a remedy for  
8 every type of problem. If there is a global  
9 production subsidy issue, there are other ways of  
10 dealing with that. The countervailing duty statute is  
11 designed to deal with problems that are caused by  
12 imports into the U.S. market. There are other  
13 remedies for this problem.

14 If Micron truly believes that there has been  
15 a subsidy that has distorted global production and  
16 that the adverse effects outside of the U.S. are the  
17 problem, they have a potential remedy in the WTO. The  
18 WTO and the SM agreements specifically contemplate  
19 those kind of cases.

20 Our point is simple, that if the effects are  
21 outside of the United States, there is another remedy.  
22 It's only when the effects are inside the U.S. and  
23 when they are created by the subject imports into the  
24 U.S. that the U.S. countervailing duty law is the  
25 right remedy. That's our basic position.

1                   CHAIRMAN OKUN: And I understand that. I  
2                   guess, when you're arguing about global prices and  
3                   that these PC OEM buyers from Mr. Tabrizi, Mr. Swanson  
4                   are global players and if you have this argument where  
5                   these have these most favored customers, who are all  
6                   playing in this same market, that the subsidized  
7                   imports, if you will, are playing a role in those  
8                   contracts.

9                   MR. DURLING: But when you focus just  
10                  narrowly on pricing, I think what's critical is the  
11                  following. You've heard a lot of kind of interesting  
12                  economic theories this morning about sort of cost and  
13                  the effect on cost and the effect on pricing and all  
14                  of that, that's all well and good. Under the statute,  
15                  you are supposed to look at what happened in the  
16                  marketplace; what were the prices.

17                  You heard a lot this morning about, oh, with  
18                  the subsidy, Hynix must be the lowest cost; they must  
19                  be the most aggressive. Well, that's all speculation.  
20                  You have the data to look at what actual prices  
21                  occurred. And our point is that whatever happened  
22                  outside the U.S., whatever the nature of the subsidy,  
23                  at the end of the day, you come down to what is the  
24                  product being shipped; what is the price being  
25                  charged; and what is the effect of that. And our

1 basic point is that whatever happens with the subsidy,  
2 if there are other companies that are offering lower  
3 prices than Hynix, if there are other companies  
4 offering lower prices and winning market share with  
5 those lower prices, we don't see how Hynix can be  
6 blamed for those adverse price effects.

7           You heard a lot about pricing dynamics, but  
8 none of it is, oh, this is a special Hynix clause. If  
9 Hynix charges a low price, then we're going to have to  
10 match it.

11           These are generic clauses that apply the  
12 same dynamic to everyone. And so, if there are other  
13 people coming in with more aggressive prices than  
14 Hynix, they're the ones, who, at that particular point  
15 in time for that particular product, are driving the  
16 price. And it doesn't matter what happened, in terms  
17 of the subsidy. It doesn't matter what Commerce  
18 found. It's what prices actually occurred in the  
19 marketplace.

20           CHAIRMAN OKUN: Would, and this maybe better  
21 for Mr. Tickle, but, also, for you, Mr. Durling, Mr.  
22 Porter, which is one of -- would you agree with what  
23 the Petitioner said about loss sales, loss revenue  
24 being difficult to identify in this type of market,  
25 where you have -- Mr. Porter --

1                   MR. PORTER: But that is our exact point,  
2                   okay. If it is difficult to identify, how are they  
3                   identifying Hynix as the reason for the low price?  
4                   They can't have it both ways. They can't say, gosh,  
5                   we couldn't come up with any loss revenue or loss  
6                   sales, because we don't know, who is the low price.  
7                   But, let me throw up a lot of fancy charts to show  
8                   that if Hynix is the low price, this is what affect it  
9                   has. Fine. We'll grant, if there's a low price that  
10                  has an effect. We'll give them that. But, where is  
11                  the evidence that Hynix is the low price? That's our  
12                  exact point, Commissioner Okun.

13                  CHAIRMAN OKUN: Okay. I hear your point.  
14                  And, again, I guess back, then, to the pricing data.  
15                  If the argument, I guess using the hypotheticals here,  
16                  if it is a case of the stand and fight versus the  
17                  watch the -- lose your volume, in this industry,  
18                  capacity utilization, you've got -- that that's what  
19                  this industry had to do and if that's what the pricing  
20                  trends we can look for, when we look at the pricing  
21                  data that we've collected.

22                  MR. DURLING: But, here's the critical  
23                  point. This is not the typical case where you have a  
24                  big domestic industry, big subject imports, and small  
25                  non-subject imports. The stand and fight theory

1 doesn't work in a case where you have so many non-  
2 subject imports.

3           Infineon produces in the U.S. and produces  
4 in Germany. Micron produces in the U.S. and produces  
5 offshore. If the lowest price is a non-subject  
6 import price, that doesn't work with the stand and  
7 fight theory. If they're fighting with non-subject  
8 imports, you can't blame us.

9           And that's the essential insight of Gerald  
10 Metals. You cannot ignore the role of the non-subject  
11 imports. That's what the standing and fighting is  
12 about. It's Nanya, in Taiwan. It's Samsung from  
13 Korea. It's Infineon's offshore operations. It's  
14 Micron's offshore operations. How can we be blamed  
15 for those being the low price source in the market? I  
16 don't think we can, or at least we shouldn't.

17           CHAIRMAN OKUN: Okay. With regard to -- I  
18 mean, let's talk about Samsung in this non-subject  
19 market. In terms of looking at the record that we  
20 have on who is competing where and who is competing on  
21 what type of product, Mr. Tabrizi, could you, or Mr.  
22 Swanson, could you talk about that, in terms of how  
23 you see Samsung in the market with your --

24           MR. TABRIZI: Sure. This morning, I think  
25 my contractor differentiated Samsung by being a

1 specialty DRAM company. Samsung has almost 30 percent  
2 market share, both in terms of best and in the dollar  
3 similar to that. And the RAM bus portion is probably  
4 in the worldwide. You know, we are talking about 100  
5 percent dealer market. Today, 80 percent is DDR in  
6 various modes and densities; about 17 percent is SDR,  
7 SD-RAM; and about two to three percent is RAM bus; so,  
8 28 percent market share, three percent RAM bus. You  
9 cannot have all of your revenue from RAM bus and RAM  
10 bus is going down very quickly. So, there is almost,  
11 in terms of matching products, almost 80 percent of  
12 the product is overlapped. So, we are playing in the  
13 same market.

14 MR. DURLING: Just one other point to  
15 emphasize. It would be really interesting for you,  
16 Commissioner Okun, to contrast Micron's argument about  
17 Samsung today with the argument about Samsung in the  
18 preliminary phase of this case. And the only thing  
19 that's happened since then is that there is more  
20 overlap, not less.

21 MR. TABRIZI: With the RAM bus going away.

22 CHAIRMAN OKUN: Okay. I have one other  
23 question, but I think I'll come back to. Vice  
24 Chairman Hillman?

25 VICE CHAIRMAN HILLMAN: Thank you. I guess



1 I want to stay, too, on some of these pricing issues,  
2 if I could. And I am very aware of your Exhibit 20  
3 and all of that data in there and I'll continue to  
4 study it and look at it.

5 But, I guess a couple of things. One, I'm  
6 trying to understand -- I mean, again, if I heard the  
7 testimony this morning, and I didn't hear really  
8 disagreement from Mr. Swanson that there is this kind  
9 of spillover effect from a low price being set in a  
10 product; then, because, of these clauses in the  
11 contracts, it ends up carrying over into other sales.  
12 I wasn't sure, Mr. Swanson, whether you were agreeing  
13 or disagreeing with this notion that there may be a  
14 spillover into other configurations of DRAMs, this  
15 blended scaling issue. I guess I'd be curious whether  
16 you think that does occur, whatever we might call it,  
17 that if a price gets set for a particular density or  
18 particular DDR, as opposed to a SD-RAM, does it have  
19 any price affect across the broader set of DRAMs?

20 MR. SWANSON: It can have some effect, at  
21 times; but, a lot of it, again, depends on the supply-  
22 demand. For instance, they use an example of an  
23 unbuffered DIMM and SODIMM. Laptops, right now, for  
24 instance use SODIMMs. So, the demand -- it turns out,  
25 the particular part that's used for that is a by 16

1 DRAM, which is different than it's being used in an  
2 unbuffered DIMM. So, what they were contrasting was,  
3 that the prices from an unbuffered DIMM to a SODIMM  
4 would be the same, even though a SODIMM, they claim,  
5 is a little bit higher value product.

6 It turns out, it's really market driven.  
7 That factor, when the market is really over supply,  
8 some of that has effect, like that they mentioned.  
9 But, it's really dependent -- you have to look at  
10 every period of time. There's time when it's not an  
11 effect. For instance, SODIMM's customers may be  
12 willing to pay quite a bit more, because the product  
13 is in short supply.

14 So, that's a generalization. Sometimes it's  
15 true, depending on the various market conditions; but,  
16 not always true. You really have to look at the  
17 period of time.

18 And, also, like on pricing, pricing  
19 unfortunately, in our business, everybody is -- even  
20 without blended scaling, people have to be competitive  
21 at a major PC OEM. If Infineon has a low price, our  
22 customer is going to drive everybody to try to get to  
23 that price. And sometimes, we choose to meet that  
24 price and sometimes, we choose not to.

25 VICE CHAIRMAN HILLMAN: Well, again, I'm

1 going back to trying to understand a little bit more  
2 on this pricing issues. Because, if there is this  
3 kind of effect on -- you know, that a price to one  
4 customer ends up getting translated into a price to  
5 the vast majority of the PC OEM market, I guess my  
6 question to you, Mr. Durling, is, obviously, this is  
7 an issue of degree. I mean, even if I look at the  
8 data in the exact way that you've suggested that we  
9 look at it, I think it's hard to say that there has  
10 been no effect from Hynix. So, then, it's a question  
11 of whether you rise to the level of a significant  
12 effect.

13 And you're asking me to look at the data in  
14 a very particular way that you've laid out in Exhibit  
15 20. I understand that. But, it still begs the  
16 question of if even one -- hypothetically, even one  
17 really aberrationally low price can have this  
18 spillover effect across a broad range. How do I,  
19 then, conclude that Hynix, nonetheless,  
20 notwithstanding these percentage figures on this, has  
21 not had a significant price effect? You're asking me  
22 to come to that conclusion. I'm just saying, not so  
23 clear in this market whether that is the right  
24 conclusion to come to.

25 MR. TABRIZI: If I could make a comment on

1 that. Of course, pricing, everybody wants to get the  
2 most aggressive pricing as the customer and the  
3 customer tries to push us for the best price.  
4 Sometimes, we have to walk away from business, because  
5 we, basically, cannot meet their demand. In certain  
6 cases, we have evidence that customers said that  
7 Infineon is giving them a 12 percent discount on top  
8 of the MFC. We just walked away. We said, we can't  
9 do that.

10 So, there are other things, other than MFC,  
11 that they do. Most favorite pricing is something.  
12 They, also, do rebates and discounts on top of that.

13 What you have to do is kind of back out,  
14 say, we can't do it. We lose market share. And  
15 that's what has happened to Hynix. We have lost  
16 market share. Companies like Nanya and Infineon, from  
17 various small market shares, have gone with very low  
18 price and aggressively got market share at Dell or  
19 other customers. They were not there three or four  
20 years ago. They are one of the main suppliers over  
21 there.

22 So, market share, you have to look at market  
23 share. Who is gaining market share? The companies  
24 that are gaining market share, they are the price  
25 leaders.

1                   MR. PORTER: Commissioner Hillman, what I  
2 would -- a couple of comments. First, don't forget,  
3 prices are renegotiated every couple of weeks. So,  
4 even if Hynix were a low price at a particular  
5 customer, at a particular point in time, the whole  
6 game starts two weeks later. So, the effect is  
7 limited by the frequency of the price negotiation and  
8 that's why when we say, in general -- again, I won't  
9 get too -- in general, Hynix wasn't always the lowest  
10 price.

11                   That's significant, because if Hynix was  
12 always the lowest price, I think you would be correct  
13 in your looking at this. But because that's not the  
14 case, Hynix may be low price one week; two weeks  
15 later, it's someone else; two weeks later, it's  
16 someone else. After awhile, what happens -- really  
17 what translates -- that does translate into market  
18 share. If Hynix were always the lowest price, why  
19 isn't Hynix market share going up? And I think that's  
20 why the industry people keep coming back to market  
21 share. There is a relationship there.

22                   VICE CHAIRMAN HILLMAN: Okay. Help me, Mr.  
23 Swanson, on the same issue that I raised a little bit  
24 this morning, which is, we priced eight different  
25 products. I think, at least the products that we

1 priced is not confidential information. And we see  
2 somewhat different trends or patterns, in terms of  
3 what happened to the prices, both across those  
4 products and then with respect to what the prices were  
5 to the PC OEMs versus the non-OEMs versus the other  
6 OEMs. If you can, help me understand a little bit why  
7 -- what accounts for those price differences, both  
8 between the products and across these different market  
9 segments.

10 MR. SWANSON: Well, I think that you hit it,  
11 market segment is the right answer there. Because,  
12 for instance, let's give an example of, the disk drive  
13 industry is using Legacy type product, which is 16 meg  
14 and 64 meg, for instance. If you look on a price per  
15 bit basis, it can be a lot different than what main  
16 memory would be on a price per bit. Again, I'm  
17 talking about looking at a 16 or 64 meg versus a 256.  
18 They're totally two different markets.

19 So, the pricing on a per bit basis is quite  
20 a bit different in the different market segments,  
21 Legacy versus mainstream. So, that accounts for a lot  
22 of the different changes between -- you know, PC OEMs  
23 is typically the same mainstream type of product,  
24 which, today, would be, for instance, a 256 meg DDR.  
25 There are products that a disk drive company is using,

1 is a 16 and 64 meg, which are not being utilized by  
2 the PC industry right now. So, there can be a big  
3 difference between the actual price per bit, in those  
4 two different market segments, because the products  
5 are different.

6 VICE CHAIRMAN HILLMAN: Okay. Let me just  
7 follow up a little bit and I'll come back to you, Mr.  
8 Tabrizi. I was trying to understand, because,  
9 obviously, one of the things that we have to try to  
10 sort through is, okay, why did the prices go down over  
11 the POI as much as they did. We're, obviously, very  
12 well aware that in the DRAM industry, price declines  
13 are the way of the world. I mean, they're always  
14 there.

15 But, we're trying to figure out, obviously -  
16 - Petitioners are arguing that the price declines in  
17 this time period were farther and faster than you  
18 would have expected from the regular cycle. And I was  
19 trying to understand a little bit more about whether  
20 the changes, in this issue of the speed at which there  
21 is a change in density, in micron width, in some of  
22 these circumference factors, or this issue of the  
23 change in, as Mr. Appleton put it, in the product,  
24 itself; in the platform is the term I think he used.  
25 It had gotten faster, as you've gone from a three year

1 typical cycle on the process side, down to more than  
2 18 months. You're not doing these step ups in fours.  
3 You're doing some step ups in twos.

4 I'm just wondering, from your perspective,  
5 has that affected, again, this issue of what we should  
6 expect as a normal, as they're describing it, 20 to 30  
7 percent price decline per year? That's still normal?  
8 Is it affected by these issues with respect to how  
9 fast the changes occur or how quickly new platforms  
10 come on? Go ahead, Mr. Tabrizi?

11 MR. TABRIZI: Basically, the price changes  
12 really depends on the level of demand to supply. I  
13 mean, if demand collapses too much, we see prices drop  
14 usually much bigger than normal. On an average, we  
15 can reduce the cost or price by about 40 percent per  
16 year. I mean, that's the shrink we do. But when the  
17 demand gets tight, then the prices go up. So --

18 VICE CHAIRMAN HILLMAN: You're saying 40  
19 percent a year, you would regard as a normal, you're  
20 saying, cost decline. What's a normal price decline?

21 MR. TABRIZI: Normal price decline, again,  
22 depends on the demand and what level of demand versus  
23 supply there is. I mean, even in today's market,  
24 there are certain products that is on allocation. As  
25 I said, DDR-400 is selling over five dollars today and



1 DDR-266 is selling for three dollars. So, there's  
2 quite a bit delta among the different products. Even  
3 in an oversupply market, there are certain products in  
4 allocation and certain products under a shortage. The  
5 graphics products, 128 meg density, today is selling  
6 for six bucks; so, equivalent 256 is \$12.

7 So, you can differentiate what type of  
8 product. One is made by 16 that goes into disk  
9 drives, sells for a dollar something, which the  
10 equivalent 256 megs would be something very expensive.  
11 So, again, it depends on your product, portfolio, and  
12 if that product is in oversupply or shortage, at the  
13 time.

14 VICE CHAIRMAN HILLMAN: Okay, thank you,  
15 very much. In the absence of the Chairman, I will  
16 call on Commissioner Koplan.

17 COMMISSIONER KOPLAN: Thank you. I was  
18 about to call on myself. Thank you.

19 Let me turn -- I just have a few questions  
20 left --, to the European Union matter. Doesn't the  
21 ongoing countervailing duty investigation in the  
22 European Union against DRAMs from Korea suggest that  
23 imports of subject DRAMs are likely to increase in the  
24 near future here, if the EU imposes duties of the  
25 magnitude I heard this morning on the subject

1 products?

2 I'm asking that, because I learned this  
3 morning, in listening to the testimony, that that has  
4 moved along to a point where there's a final draft  
5 that seems to follow what they had in their  
6 preliminary determination. And I understand that  
7 August 24th of this year is the date that this will  
8 come to conclusion. Obviously, I'm asking this  
9 question, because it bears on the issue of threat.

10 And I would ask, in your responding to me,  
11 what is the quantity and value of the exports that are  
12 covered by the EU investigation?

13 MR. DURLING: I don't have a number off the  
14 top of my head. We certainly could provide it in the  
15 post-hearing brief.

16 COMMISSIONER KOPLAN: Okay. I'd like to get  
17 as much details as I can. And, apparently, I am able  
18 to get the text of the draft final determination, but  
19 I would appreciate any details on that. I mean, I've  
20 heard you all talk about, this is a commodity product,  
21 totally interchangeable, substitutable. So,  
22 naturally, the question is, am I going to see a shift  
23 that's imminent, if this case goes affirmative in  
24 August, okay.

25 Staying with that same issue is the question

1 of what's going on in Taiwan, as well. And this  
2 morning -- I was going to ask you what's the  
3 likelihood. This morning what I heard was, this is  
4 probably going to happen, that DRAM produced in Taiwan  
5 will, also, be bringing a case shortly against Korean  
6 DRAMs in their market. And I might ask you, if you  
7 could tell me, similarly, what am I looking at there,  
8 in terms of quantity and value. What's the magnitude  
9 of that one? You have a preview of that, I imagine.

10 MR. DURLING: Commissioner Koplan, we'll be  
11 happy to kind of look at the specific numbers.  
12 Obviously, that's proprietary. We can get into that  
13 in the brief.

14 But, at least with respect to Taiwan, I just  
15 want to step back and remind you that what they're  
16 citing to are some press reports. I mean, this is a  
17 case that hasn't even been filed yet. And whether the  
18 case ever comes and if the case ever comes, what is  
19 the outcome, and if there's an outcome, in either the  
20 EU case or in the Taiwan case, whether that outcome is  
21 ever upheld as being a legitimate valid outcome. I  
22 mean, I think it's important to keep in mind that you  
23 have these decisions taking place and, yes, you need  
24 to know that they're going on and think about them.  
25 But --

1                   COMMISSIONER KOPLAN: I'm faced with that  
2 same issue here. I always wonder whether our  
3 decisions are going to be upheld. But, we still make  
4 that decision.

5                   MR. DURLING: No, I understand. But, I  
6 mean, as long as we're speculating about what  
7 decisions will be upheld, let's throw in the Commerce  
8 Department decision, because as the Commission has  
9 found in many of its cases, including cases in the  
10 DRAM industry and the semiconductor industry, a lot of  
11 times the Commerce Department decisions change  
12 fundamentally, when they're subjected to a somewhat  
13 higher standard of review. So, we just need to be  
14 careful what conclusions we draw from these decisions.

15                   COMMISSIONER KOPLAN: I'll be very careful,  
16 Mr. Durling. But, I do look forward to getting that  
17 post-hearing.

18                   Let me come back to something that Professor  
19 Hausman testified to this morning. And he was here  
20 until just recently. I see he's currently left. But,  
21 Mr. Kaplan is here, so I'm sure he can get in touch  
22 with him, because, I would like a response from his on  
23 this, as well.

24                   If I understood his testimony correctly this  
25 morning, his price impact analysis assumed a complete

1 shutdown on Hynix. Now, the industry has been subject  
2 to earlier periods of consolidation and market exit.  
3 And I would be asking him, as well as yourselves, what  
4 was the result of those earlier periods of rounds of  
5 consolidation? Was production capacity industry-wide  
6 reduced? Were the DRAM production facilities, the  
7 capital equipment purchased by the remaining  
8 producers?

9 I noticed this is kind of triggered by page  
10 69, your page entitled "asset continue regardless a  
11 subsidy," where you talk about, alternatively, Micron  
12 tried to buy, Infineon tried to buy, and the Chinese  
13 expressed interest. And so, I would like to hear your  
14 response to his analysis, based on a complete  
15 shutdown. And I would, also, like to hear from Mr.  
16 Hausman, post-hearing, whether I'm accurately  
17 characterizing his assumption.

18 MR. DURLING: First, just a couple of  
19 responses.

20 COMMISSIONER KOPLAN: Sure.

21 MR. DURLING: You are correctly describing  
22 his assumption. He is assuming that 17 percent of the  
23 global market supply disappears. And so, he is  
24 assuming a complete shutdown, which, for all the  
25 reasons we've explained, we think is very unrealistic

1 assumption, okay. But the other point --

2 COMMISSIONER KOPLAN: Didn't he say it was  
3 only 12 percent earlier?

4 MR. DURLING: No. His analysis was 17  
5 percent.

6 COMMISSIONER KOPLAN: Seventeen percent.

7 MR. DURLING: Yes. His figure was based on  
8 17 percent. But the other point that I urge the  
9 Commission and the Commission staff, keep on Mr.  
10 Hausman. He has a track record of giving us partial  
11 information, which we cannot then analyze, because his  
12 report came in, he promised us he was going to give us  
13 his data set, and he gave us kind of a narrative  
14 description without any of the programming language,  
15 without any of the data. And I wouldn't be focusing  
16 on it so much, except that every time we see Mr.  
17 Hausman, he plays this game of hiding his output.

18 So, I strongly urge that you give very  
19 specific instructions through the staff that Hausman  
20 should provide everything that we need and your staff  
21 needs, to replicate what he has done. No more simply  
22 summaries. We want to see the programming code, we  
23 want to see the economic models, all the math and all  
24 of the data. Because if we can't replicate the  
25 analysis, if you can't replicate the analysis, we

1 can't test it.

2 And, with all due respect, he's playing a  
3 game here, because we've made this request. The staff  
4 has already once told him, turn over everything, so  
5 that we can analyze it. And what has been turned  
6 over? At least what has been turned over to us is not  
7 capable of replication. And that is the basic  
8 standard that a respectable social scientist should be  
9 held to: can someone else replicate your analysis.

10 COMMISSIONER KOPLAN: Well, I believe I made  
11 the request of him this morning and he said he would  
12 do it. You asked him if you could get it earlier  
13 enough to analyze it and he said he would do that.

14 MR. DURLING: I'll believe it when I see it.

15 COMMISSIONER KOPLAN: If I could just finish  
16 that. This is a question that I've been asking now,  
17 generally, of any economic analysis that I receive,  
18 because it's helpful to us and our staff. So, I  
19 wasn't singling him out this morning. It's just  
20 information that I think is useful to us, in weighing  
21 the analysis. I thank you for your response.

22 MR. PORTER: Commissioner, I think your --  
23 I'm sorry, Dan Porter. Quickly, I think your question  
24 is very good and I think what would be useful, we will  
25 try to do, is just do what you ask for every -- in

1 recent history, every fab where the order sort of  
2 decided to exit, what happened to the production  
3 facility, and I think the results will be very  
4 interesting.

5 COMMISSIONER KOPLAN: Thank you, Mr. Porter,  
6 and I want to thank you for your presentation this  
7 afternoon. It's extremely helpful. I have no further  
8 questions.

9 CHAIRMAN OKUN: I don't have any other  
10 questions. Let me turn to Vice Chairman Hillman.

11 VICE CHAIRMAN HILLMAN: I hope a couple of  
12 just factual questions. Micron claims that Hynix's  
13 un-cased DRAMS exported to Korea become  
14 interchangeable with the DRAMS that are fabbed in  
15 Korea and that only a small portion of that actually  
16 comes back into the U.S. market. Would you agree with  
17 that and, if so, where are most of the DRAM's made  
18 from Hynix's U.S. facility, fabbed in the U.S., cased  
19 in Korea, sold? Where are they sold?

20 MR. TABRIZI: They said this morning, USA  
21 market is about 40 percent of the total DRAM  
22 consumption, the decision-making here. But most of  
23 our major accounts here, they do their manufacturing  
24 outside here. So, the actual direct DRAM shipment to  
25 U.S. is probably around 15 percent of the worldwide



1 actual components coming here. Most of it comes back  
2 in a box or a machine or something. So, in terms of  
3 the answer to your question --

4 VICE CHAIRMAN HILLMAN: I think, you're, in  
5 essence, agreeing with the first part of it, which is  
6 that only a small portion of what is fabbed here,  
7 cased in Korea, actually comes back into the U.S.  
8 market.

9 MR. TABRIZI: No. Right now, 100 percent of  
10 everything is fabbed in USA that comes back to USA,  
11 because we need it for our customers in the USA. We  
12 don't ship it anywhere else, or a majority of it.

13 VICE CHAIRMAN HILLMAN: Okay. Then, again,  
14 I don't want to go into confidential information; but,  
15 Mr. Durling, if you could look at the numbers  
16 indicated in, I believe, it's Micron's brief, and just  
17 get back to us just on this issue of what portion of  
18 the U.S. production actually comes back --

19 MR. DURLING: Yes.

20 VICE CHAIRMAN HILLMAN: -- into the U.S.  
21 market.

22 MR. DURLING: Commission, we will do that.  
23 Just to note that we have kind of an unusual  
24 situation, where the plant was shut down for the good  
25 part of this period, and then he had ramp up time, to

1 get the full production. So, you really only have one  
2 period of full-year 2000, that you really can sort of  
3 test this about when things are fully operating for  
4 Hynix, where are things made and shipped. But, we'll  
5 do that for you.

6 VICE CHAIRMAN HILLMAN: Okay.

7 MR. TABRIZI: I really want to ask the  
8 Commission to consider this. For a period of one  
9 year, we shut down Eugene Powers, a very responsible  
10 company. We saw that there was an oversupply in the  
11 market. We saw that we needed to upgrade our fab. We  
12 said, this is the best thing for industry, take some  
13 capacity away, at the time, so we can upgrade. So,  
14 during that time, we still had contractual obligations  
15 to our major accounts. You know, when we sign an  
16 agreement with IBM, they say, you have to give us this  
17 percentage of our market shares; same with Dell; same  
18 with HP. So, when there was a shortage of product  
19 during that time when Eugene was not producing any  
20 parts, we had to import from USA.

21 And if you look at when the Eugene ramp up  
22 took place, the total imports when down. So, it  
23 really was subject of Hynix trying to help industry at  
24 the time that there was oversupply. We tried to take  
25 capacity away, help the situation. I mean, we acted

1 very responsibly during that meltdown.

2 VICE CHAIRMAN HILLMAN: Okay. But, you're  
3 saying now. And the other part of my question was, of  
4 the product that is fabbed in the U.S. and then  
5 shipped to Korea and cased, where is that being sold?  
6 I just want to make sure I'm understanding. You're  
7 saying, 100 percent of that comes back into the U.S.  
8 market?

9 MR. TABRIZI: It depends on which period you  
10 look at. When Eugene was shutdown, at that time, we  
11 didn't have enough product to bring to U.S. But right  
12 now, most of the product from Eugene comes back to  
13 USA.

14 VICE CHAIRMAN HILLMAN: Most of it comes  
15 back?

16 MR. TABRIZI: Right now, right now, yes.

17 VICE CHAIRMAN HILLMAN: Okay. That's  
18 interesting.

19 MR. TABRIZI: We can show that.

20 VICE CHAIRMAN HILLMAN: Okay. Second thing  
21 I wanted to touch on a little bit was this issue of  
22 the degree to which purchasers change suppliers. I  
23 mean, you commented extensively in your brief about  
24 the fact that purchasers very infrequently change  
25 their suppliers. And, yet, I have to say, as I

1 understand the way these contracts work, they tend to  
2 be a range; you know, that I will give you -- IBM will  
3 give whoever between such and such and such percent of  
4 my business. So, obviously, everybody is fighting  
5 over that marginal share or getting the high end of  
6 the percentage figure in the contract, rather than  
7 getting the low end.

8 First of all, I just want to make sure I  
9 understand, do you understand that that's how it  
10 operates? Would you agree with that or not?

11 MR. SWANSON: Typically, let's say, one PC  
12 OEM may have, let's say, four different agreements and  
13 maybe they're all 20 percent market share, for  
14 instance. And so, they operate under typically -- you  
15 know, as long as you meet the quality, the technology,  
16 and delivery, and you can product it, then you should  
17 receive your 20 percent. Now, that's typically how it  
18 occurs.

19 VICE CHAIRMAN HILLMAN: But, it wouldn't be  
20 a range of 20 to 25 percent, that you'll get somewhere  
21 between 20 and 25, and you're aspiring to 25, but you  
22 may only end up with 20?

23 MR. SWANSON: The agreements that we have  
24 right now, I believe most of them are pretty much  
25 fixed at one number, like a 20 percent. There may be

1 one or two that haven't been that way. But,  
2 typically, it's not a range; it's a set number.

3 VICE CHAIRMAN HILLMAN: Okay. Because, Mr.  
4 Durling, I'm trying to understand, when you say in  
5 your brief that people change suppliers infrequently,  
6 very infrequently, whether that applies to this notion  
7 of sort of changing relative shares of a particular  
8 product purchased from different producers. Now,  
9 would you agree that that is happening?

10 MR. DURLING: No. The point we're trying to  
11 make in the brief, Commissioner Hillman, is that  
12 suppliers change infrequently. Sometimes, it happens,  
13 but it is relatively infrequently. And we were,  
14 essentially, summarizing what we had gotten from, from  
15 the purchaser's questionnaires. Our argument was  
16 really just using their own words.

17 But, I think what's helpful is sort of at  
18 the end of all of that, you come back to kind of what  
19 was kind of the net change in market share on a brand  
20 basis. Because, as you've just heard, when customers  
21 make a decision to purchase, it's not a decision,  
22 we're going to buy Hynix chips from Korea or Micron  
23 chips from Italy or Infineon chips from Germany. What  
24 they're signing is a contract with the DRAM supplier  
25 and they may get chips fabbed in a variety of

1 different places, as long as those fabs have been  
2 qualified.

3 So, at the end of all of that, it's a very  
4 complex process for all of the companies. You may  
5 have a mixture of domestic supply, of import supply.  
6 But the net result of all of that is seen in the brand  
7 market share; at the end result of that, who is  
8 gaining and who is losing.

9 VICE CHAIRMAN HILLMAN: Mr. Tabrizi, you  
10 look like you wanted to comment.

11 MR. TABRIZI: Yes. I mean, the customers, I  
12 mean, that long-term agreement, that's their best  
13 intention to buy up to certain percentage. But, they,  
14 also, try to play with you. Sometimes, they let the  
15 newcomer, like Nanya -- Nanya was not a player, you  
16 know, two or three years ago. Now, they're becoming  
17 more of a player in the bigger accounts. So, it's not  
18 all 100 percent of the requirement is allocated. You  
19 know, they have room to maneuver. And that's what  
20 happens. They bring one guy in; they reduce one guy's  
21 percentage. But, it's certainly flat, in terms of who  
22 comes in.

23 VICE CHAIRMAN HILLMAN: Okay. Another  
24 question. I understand that Hynix moved its business  
25 headquarters from Korea to California in 2001?

1                   MR. TABRIZI: Actually, I was in Korea  
2 living there and I -- you know, really difficult to  
3 commute between San Jose and California. So, me and  
4 my boss, which is head of sales and marketing, we  
5 moved our offices to San Jose. But, really, we,  
6 always -- you know, the majority of my staff is in  
7 Korea. I have an office in San Jose. When we said we  
8 moved our offices to San Jose, it was really a few  
9 individuals. And, you know, some people feel that we  
10 moved our headquarters to USA and, of course, USA is  
11 the most important region for us, in terms of the key  
12 customers we have, and it's nice to be close with  
13 them. But, really, the major operation, including our  
14 CEO, stays always in Korea.

15                   VICE CHAIRMAN HILLMAN: Okay. And then,  
16 finally, just for the post-hearing brief, if you  
17 could, please, comment on Exhibit 20 of the  
18 Petitioners' brief. Again, it's all confidential  
19 information, so there's nothing more I can say on  
20 that, other than I would like your analysis and your  
21 comment on that particular exhibit.

22                   MR. PORTER: We would be happy to do so,  
23 Commissioner.

24                   VICE CHAIRMAN HILLMAN: Okay. And with  
25 that, I have no further questions. Madam Chairman,

1 thank you.

2 CHAIRMAN OKUN: Thank you. Commissioner  
3 Koplan?

4 COMMISSIONER KOPLAN: I have no further  
5 questions.

6 CHAIRMAN OKUN: Let me ask Commission staff  
7 if they have questions of this panel.

8 MS. ALVES: Good afternoon. Mary Jane  
9 Alves, the General Counsel's Office. I have one final  
10 question that I would like all counsel to respond to.  
11 Would you, please, discuss, with respect to alternate  
12 Table 3-2, whether appropriate circumstances exist to  
13 exclude any of these domestic producers from the  
14 domestic industry, as related parties.

15 MR. PORTER: We will do so, in our post-  
16 hearing brief.

17 MS. ALVES: Staff has no further questions.

18 CHAIRMAN OKUN: Thank you. Do counsel for  
19 Petitioners have questions for this panel?

20 MR. KAPLAN: No, Madam Chairman.

21 MR. ROSENTHAL: No.

22 CHAIRMAN OKUN: And no from Mr. Rosenthal.  
23 Okay, thank you, very much. If that's the case, then  
24 the domestic producers have a total of eleven-and-a-  
25 half minutes remaining, including five minutes for



1 closing. Respondents have a total of nine-and-a-half  
2 minutes, including five minutes for closing. So, if  
3 we're ready to turn to the closing statements and  
4 using your time, as you tell me, I'm going to thank  
5 this panel, very much, for their testimony, for their  
6 answers to our questions, and very much appreciate you  
7 being here. It's been a very helpful afternoon.

8 Let's take a moment to switch things around.

9 (Pause.)

10 CHAIRMAN OKUN: All right, Mr. Kaplan, Mr.  
11 Appleton, Mr. Rosenthal, we are ready to proceed.

12 MR. KAPLAN: Mr. Appleton?

13 MR. APPLETON: Thank you, Mr. Kaplan. I  
14 want to address just really primarily one issue and  
15 that has to do with capacity. Wafer starts are simply  
16 the wrong metric to use. The reason is that companies  
17 use different wafer sizes. Hynix, during the POI,  
18 actually used both six-inch and eight-inch wafers.  
19 Bits produced are really the only way to measure  
20 capacity. And, in fact, Hynix expanded their bits.  
21 In fact, they brought on a new eight-inch wafer fab in  
22 2001. The fact is, Hynix has doubled their output  
23 from 2000 to 2002.

24 However, even if you wanted to consider  
25 wafer, let's look at that. Hynix brought on the new

1 wafer fab in 2001, as I mentioned, and I'm not talking  
2 about wafer capacity from Eugene.

3 If you look at Micron, on the other hand,  
4 Micron has not brought on any new fabs since 1989.  
5 All of Micron's capacity growth is the result of  
6 consolidation in the industry, capacity, which already  
7 existed.

8 Hynix claims that their capacity today is  
9 not the result of subsidies. But, I want you to keep  
10 in mind, when I spoke about the timing of these things  
11 earlier. Hynix's capacity today is the result of  
12 subsidies from prior years, which were equal to or  
13 greater than Micron and other's capital expenditures.

14 MR. KAPLAN: Thank you. I just have a few  
15 brief points and then a brief conclusion. In terms of  
16 the volume of imports and the volume effects, this is  
17 a volume case, as well as price. Professor Hausman  
18 talked about volume. I urge you to look at the staff  
19 report, page 4-9 alternate. That's where the real  
20 volume numbers are.

21 In terms of Eugene, I sympathize or whatever  
22 with Commissioner Hillman's questions and I'd ask you  
23 to look carefully at Hynix's producer and importer  
24 questionnaire responses. Professor Hausman, by the  
25 way, did not only look at the total elimination of the

1 Hynix capacity. Both his report and his testimony had  
2 two models, contrary to what Hynix said: one is, if  
3 you take all the capacity out; the other is, if you  
4 take just the new growth capacity out.

5 Finally, in terms of the pricing, the staff  
6 has considerable experience with this industry. They  
7 have presented the data in the most accurate and  
8 complete manner and we urge the Commission to rely on  
9 the staff report and not respond in a state of  
10 manipulations, in terms of looking at the pricing.

11 In terms of capacity, I'd, also, refer you,  
12 following up on Mr. Appleton's point, to confidential  
13 Exhibit 4. And, I'd, also, say that, in terms of  
14 demand, consumption, according to the Commission, in  
15 terms of bits, increased 144 percent from 1999 to  
16 2001. That's page 2-4 of the preliminary report. And  
17 for the period after that, it's, also, covered in APO  
18 data, and I'd urge you to look at that.

19 So with that brief rebuttal, I would just  
20 turn to a brief conclusion and say that I think you've  
21 heard today what we can say publicly about the state  
22 of the U.S. industry, about the pricing in this  
23 industry, about the causes of the downturn, about the  
24 continuing growth of demand, about Hynix's cost, and  
25 about what the future holds, if these trends continue

1 unabated.

2           You've heard what Mr. Appleton has said  
3 about the issues facing Micron. You have heard what  
4 Mr. Sadler has said about how pricing works in this  
5 market. And you have heard from Professor Hausman  
6 about the impact of major subsidized supply on a four  
7 member commodity industry engaged in intense  
8 competition. You've heard what Ms. Byers has said  
9 about threat. There has been no turnaround in this  
10 industry, as Ms. Byers has demonstrated.

11           To me, it all adds up to something  
12 relatively simple. Injury is being caused here by  
13 subsidies that have lowered the effective cost of  
14 Hynix to an incredible degree, that have kept a supply  
15 and import levels of DRAMs from Hynix larger than they  
16 should have been, and that have allowed Hynix to price  
17 down to very low levels on an ongoing basis.

18           When there's a downturn in this industry,  
19 people leave the industry, or at least cut back. We  
20 saw that here with some suppliers leaving the U.S.  
21 industry. Hynix, rather than readjusting or cutting  
22 back or leaving the industry, has continued on a  
23 strong basis, and this is a cause of material injury  
24 to this industry. We strongly urge you to consider  
25 all of this data, to focus on the data in the staff

1 report, not the pick and choose data from Hynix's  
2 brief, and make an affirmative decision in this case.  
3 Thank you.

4 CHAIRMAN OKUN: Thank you.

5 MR. ROSENTHAL: I'd like to add my thanks  
6 for your attention this afternoon and this morning.  
7 It's a complex industry and this case, unfortunately,  
8 has been made a little bit more complex and necessary  
9 by the arguments by opposing counsel. I'm  
10 particularly troubled by how they decide to shift from  
11 one database to another, depending on the argument  
12 they're using, and, in some instances, totally  
13 ignoring the data in the record and the staff report  
14 and using, what I regard, as conjured up data. I'm,  
15 also, gratified that some of the Commissioners'  
16 questions today, particularly when it came to import  
17 growth and import penetration, essentially nailed  
18 Respondents' counsel on how they mischaracterized the  
19 record.

20 Those of you, who are movie buffs, may  
21 remember a popular movie from a few years ago, called  
22 the Sixth Sense. It starred a wonderful young child  
23 actor named Haley Joel Osment. He was a character in  
24 this movie, who could see ghost. His famous line in  
25 the movie was, "I see dead people." Well, no one

1 would mistake me for a cute little Haley Joel Osment,  
2 I'm sure; but when I look over at the other side of  
3 the room and I see the representatives of the Hynix  
4 Corporation, I see representatives of what should be a  
5 dead corporation. That company should be out of  
6 business, if the market were allowed to work. Hynix,  
7 at the very least, should not be in a position to  
8 install new capacity and install new technology.

9           Unfortunately, as you know, the Government  
10 of Korea has decided not to let the market players  
11 work. Indeed, as one Hynix official, one of the  
12 representatives here today earlier said, "we won't be  
13 going bankrupt. The Korean Government won't let us  
14 fail." That was said in December of 2001. Billions  
15 of dollars of subsidies later, the Korean Government  
16 has underscored its commitment to keeping Hynix in  
17 business, no matter what the consequences.

18           So when the Commission considers the  
19 important question of why is the bottom of the DRAM  
20 cycle different, longer, and much worse financially in  
21 this cycle than in previous cycles, there's only one  
22 word that will answer your question and that is Hynix.  
23 Contrary to what Hynix would have you believe, the  
24 company's market share, worldwide and in the U.S., is  
25 significant. And as Dr. Hausman testified, the mere

1 presence of the Hynix volume in the market has had a  
2 severe downward effect on price. If the marketplace  
3 were allowed to work, if Hynix had not been kept alive  
4 by artificial means, U.S. prices would be much higher  
5 and so would the profitability of the domestic  
6 industry.

7           The claim by Hynix's counsel, that the  
8 domestic industry is doing well, would be laughable,  
9 if the facts underlying that claim weren't so tragic.  
10 Massive layoffs, foregone investments, difficulty in  
11 securing capital for investment are clearly signs of  
12 an industry in difficult straights. Of course,  
13 because the subsidy is available to Hynix and the  
14 certain knowledge that the Korean Government would not  
15 allow it to fail, Hynix's pricing has not and is not  
16 constrained by the need to make a profit, to cover  
17 operating costs, to generate revenues for investment.  
18 Hynix can and does have the liberty, if you will, to  
19 price at what it needs to, to keep its factories full  
20 and its workers employed.

21           Hynix does not need to win every order it  
22 goes after. That's the fallacy that they would like  
23 you to accept. The availability of Hynix's low price  
24 offered in the marketplace, however, is  
25 disproportionate, even to a significant volume.

1                   You've heard extensive testimony today from  
2                   Mr. LeFort and others about the domino effect that  
3                   Hynix's prices have on the DRAM marketplace.  
4                   Interestingly enough, Hynix's witnesses agree with the  
5                   domestic industry's characterization of how prices  
6                   work in the marketplace. Mr. Porter, Hynix's counsel,  
7                   of course, claims that Hynix is not the price leader  
8                   or is not always the price leader.

9                   But, that's not the point here and that's  
10                  not what we have to prove or what the statute  
11                  requires. There's no requirement that Hynix be the  
12                  price leader, to demonstrate either price underselling  
13                  and resultant price depression that the statute  
14                  identifies. Look at your record. There is  
15                  substantial evidence of underselling by Hynix.  
16                  Whether or not there's another source of imports that  
17                  might be a lower price in any given month does not  
18                  erase the evidence of significant underselling by  
19                  Hynix. And that's all you need, in this instance,  
20                  when you couple that with the way price works in this  
21                  particular market.

22                  It does not take any sixth sense and divine  
23                  Hynix's harm to the domestic industry. A Smith Barney  
24                  report in December 2002, after another \$4.1 billion  
25                  bailout, noted, "the latest capital restructuring of



1 Hynix will probably allow the company to continue  
2 investing and competing in the industry and is  
3 definitely great news to the market, which has been  
4 seeking some form of consolidation and  
5 rationalization." By the way, one of the tag lines to  
6 the movie, the Sixth Sense, is, "there are ghosts  
7 walking among us looking for help. They have found  
8 it."

9 Hynix has certainly found plenty of help  
10 from the Korean Government. That help has resulted in  
11 import caused harm. Not just the subsidies, but  
12 subsidized imports have caused harm to the domestic  
13 DRAM industry. And, unfortunately, more harm is due  
14 to imports from Hynix and that is imminent, as that  
15 company's investments in later generation technology  
16 allows to continue its uneconomic marketplace  
17 behavior.

18 And by the way, talking about threat, just  
19 take a look at the resolution by the Korean parliament  
20 that was submitted to this Commission and elsewhere.  
21 The Korean parliament certainly believes that imposing  
22 countervailing duty, in their words, "would threaten  
23 the very survival of the company." Conversely, I  
24 would argue that failing to impose a countervailing  
25 duty would threaten survival of the domestic industry.

1 And you can be sure that when European and Taiwanese  
2 authorities reach their final conclusion, they will  
3 find that Hynix has hurt their domestic industry, as  
4 well, and will impose countervailing duties.

5 Now, the U.S. industry doesn't need any help  
6 of the sort received by Hynix from its government.  
7 What the domestic industry needs here and what the  
8 record of this proceeding compels is an affirmative  
9 determination. Thank you.

10 CHAIRMAN OKUN: Thank you. You may proceed,  
11 Mr. Durling.

12 MR. DURLING: Thank you, members of the  
13 Commission. Again, for the record, I'm James Durling  
14 with Wilkie Farr & Gallagher. We all agree that the  
15 determination needs to be based on the record the  
16 Commission has collected. But, there are two critical  
17 points.

18 First, you need to look at the record and  
19 all of the record and you need to measure it against  
20 the statute. Again, ultimately, the Commission's job  
21 is to apply a specific statute in this case and that  
22 statute requires a focus on subject imports. So, much  
23 of what you've heard today from Petitioners simply  
24 does not relate to that fundamental task of the  
25 Commission, which is, how do you relate subject

1 imports within the terms of the statute.

2           You've heard so much emphasis on the  
3 subsidy, because, I believe, the domestic industry  
4 recognizes that their traditional case here is not  
5 that strong and so they are trying to push the  
6 envelope. They're trying to find new theories for  
7 applying the trade remedy laws. But, whatever happens  
8 with the DOC finding, whatever happens with the  
9 results in future cases, the underlying Hynix assets  
10 are not going to go away. And their fundamental  
11 economic logic is that, but for the Korean Government  
12 action, these assets would disappear. But, that's not  
13 what happens to assets. The assets are acquired by  
14 other people.

15           If you look at what's happened in the U.S.  
16 industry, many of the assets that left one form of  
17 corporate ownership now belong to someone else. The  
18 reason Mr. Appleton can get up and say, oh, Micron, we  
19 didn't increase any capacity, well, excuse me, they've  
20 acquired many other operations. They acquired the  
21 operations of TI. They acquired the operations of  
22 Toshiba. Micron took under its corporate control  
23 substantially new assets during this period. The  
24 assets, in this industry, don't go away. And so, it's  
25 completely unrealistic to assume that, but for the

1 subsidy, Hynix would have somehow disappeared.

2 So, when we get beyond the domestic  
3 industry's effort to push the envelope and create new  
4 causes of action under the statute, what are we left  
5 with? We're left with volume effects. By Commission  
6 standards, the total level of Hynix subject import  
7 volume, in this case, has been modest and small and it  
8 has been declining, if you do what we think is  
9 appropriate, which is look at Hynix on a brand basis.

10 This isn't about cherry picking information  
11 and proposing alternative sources of data. Everyone  
12 is looking at the same data. This isn't cherry  
13 picking. Our arguments to the Commission are simply  
14 that the staff did a good first pass of the data, but  
15 there are aspects of the data that you need to look at  
16 more closely. So, we are simply doing our job, as  
17 practicing before the Commission, and we are helping  
18 you understand the data before you better. And all we  
19 are urging is that you look at the data in more  
20 detail. We're not cherry picking the data.

21 We're simply saying, there are aspects to  
22 the data that you need to look at and subject volume  
23 is a critical part of that. Because, if you do not  
24 take into account the effect of the Eugene shutdown,  
25 essentially, what you are saying is that a company

1 that makes the decision to come to the United States  
2 and invest and to create all of these assets and to  
3 create jobs in the United States, that when they need  
4 to have a temporary shutdown to invest more money in  
5 the U.S., to create more jobs in the U.S., that  
6 somehow, they're going to be punished, because during  
7 that narrow period of time, they may have had a small  
8 increase in imports.

9 First, I think it's ridiculous to think that  
10 the statute contemplates punishing a company and  
11 labeling them as having injurious levels of imports,  
12 in a situation like that, where the imports were not  
13 taking sales from any domestic companies. They were  
14 simply replacing existing Hynix contractual  
15 commitments. How can an increase of that sort be  
16 deemed the cause of any problems for the U.S.  
17 industry? I don't think that it can.

18 The other critical point about volume is  
19 that volume is a very good measure of sort of the end  
20 result of a very complex competitive dynamic, volume  
21 and market share, and what we see, in this case, is  
22 that Hynix's market share, measured on a brand basis.  
23 Hynix is a corporate entity. Its success in the U.S.  
24 market has been falling over time, not growing over  
25 time.

1           To hear the domestic industry tell it, you  
2 would think that Hynix was the dominant force that was  
3 just completely taking over the U.S. market. But the  
4 end result, as measured by market share, is that Hynix  
5 is getting less and less, not more and more. So, I  
6 think market share, the market share volume is a very  
7 good measure, kind of a pulling it together and what's  
8 the end result of all of these competitive dynamics.

9           If we turn to price, I think there are a few  
10 basic principles the Commission needs to keep in mind.  
11 The first, it is critical to look at the actual prices  
12 that your investigation has collected. Mr. Sadler  
13 made one of the more interesting comments today, when  
14 he, basically, admitted that he has no idea what the  
15 prices are in the marketplace. You do and you should  
16 look at those prices very carefully.

17           The second basic point is it is absolutely  
18 essential that you look at the price of all of the  
19 sources, not just Samsung, although I have to note  
20 with interest that the switch in the Samsung story in  
21 this overall investigation is quite remarkable. The  
22 company that was aggressively competing on a head-to-  
23 head basis with complete overlap, in the preliminary  
24 investigation, all of a sudden has transformed itself  
25 into a company that has nothing to do with competitive

1 dynamics in the DRAM market, which is a remarkable  
2 turnaround.

3 But, whatever you think about Samsung, don't  
4 forget about Infineon non-subject imports. Don't  
5 forget about Taiwanese non-subject imports. Don't  
6 forget about all the non-subject imports from all of  
7 the other sources. The reason Hynix is a very small  
8 part of the total market is not because of its U.S.  
9 production. Look at the total numbers. This is a  
10 market where most of the market is being supplied by  
11 non-subject imports -- some from Micron, some from  
12 Infineon, some from people all over the world. But,  
13 most of the market is being supplied by imports, but  
14 the market is not being supplied by imports from  
15 Hynix's Korean operation.

16 All of the pricing dynamics you've heard  
17 about today, and there was an amazing amount of  
18 consensus about the pricing dynamics and how they  
19 work, but the most important point, and this is the  
20 fundamental disagreement between our side and  
21 Petitioners' side, Petitioners' side wants you to  
22 believe that these dynamics only apply to Hynix, and  
23 they don't. They apply to everyone else in the  
24 market. They apply to that overwhelming volume of  
25 non-subject imports.

1                   And so, yes, a single price might have some  
2 effect; but, that's true for everyone in the  
3 marketplace. So, yes, there may be instances where  
4 Hynix happened to be the lowest price at a given point  
5 time. For goodness sakes, in a market like this, with  
6 DRAM prices posted, as Petitioners' side said, on a  
7 daily basis, in public sources, where everyone else  
8 can track prices so closely, of course, you're going  
9 to have a substantial amount of convergence. And I  
10 think for a lot of the products, that's what your  
11 pricing data shows, a remarkable amount of convergence  
12 in the individual supplier prices. That's not  
13 surprising.

14                   What's critical is that that dynamic is  
15 applying to everyone in the market. And so, if there  
16 are domino effects, they, also, apply for the much,  
17 much more substantial volume of non-subject imports.

18                   When you come to underselling, again, we'll  
19 have to do this in the brief, because it's propriety,  
20 but if you look at it on a supplier basis and if you  
21 look at it over time, I think you will see that the  
22 price effects of Hynix subject imports are, at best,  
23 very, very attenuated.

24                   Then, Commissioner Hillman, you asked a very  
25 good question, which was, okay, well, what do I do, if



1 I find a low price and then there are these spillover  
2 effects. It's a very complicated pricing dynamic,  
3 complicated products; but, again, the net result of  
4 all of this is, who is gaining and who is losing  
5 market share. So, I urge you to step back and if you  
6 look at who is gaining, it's the other suppliers.

7 So, let me just close, and I'll merge my  
8 rebuttal and my closing statement, and just make kind  
9 of a few concluding thoughts. What really happened in  
10 this case is that Micron, basically, was throwing the  
11 dice. They had a problem with Hynix and what was  
12 happening with Hynix, and that's fine. But, they knew  
13 that their case against Hynix was very weak. So, they  
14 brought this case and they included Hynix and Samsung.  
15 And if you go back and read what they told you in the  
16 preliminary phase of this case, it is quite clear that  
17 they view their case as being based on both of those  
18 companies, the volume of both companies, the price  
19 effects of both companies. That was the case they  
20 filed and brought to the Commission.

21 But, guess what? The roll of the dice  
22 didn't work, because Commerce didn't find any  
23 subsidies for Samsung. And so, the essence of their  
24 case, the volume part of their case, the aggressive  
25 price, the connection between aggressive pricing and

1 gaining market share, that part of their case  
2 disappeared when Commerce excluded Samsung from this  
3 investigation.

4 Now, Mr. Appleton probably --

5 CHAIRMAN OKUN: Mr. Durling, let me just  
6 check. Okay, you can go.

7 MR. DURLING: Okay, 30 seconds. Mr.  
8 Appleton likes to tell his colleagues in the industry  
9 that it's his job as CEO to use every tool available  
10 to him, to obtain an advantage for his company.  
11 That's fine. That's his right. He has that right  
12 under U.S. law. But the U.S. law, also, imposes  
13 standards for doing that. And just because it helps  
14 Micron, that is not a reason to make an affirmative  
15 determination in this case. Thank you.

16 CHAIRMAN OKUN: Thank you. Post-hearing  
17 briefs, statements responsive to questions, and  
18 requests of the Commission and corrections to the  
19 transcript must be filed by July 1, 2003; closing of  
20 the record and final release of data to the parties is  
21 July 16, 2003; and final comments are due July 18,  
22 2003. There is no other business before the  
23 Commission. This hearing is adjourned.

24 (Whereupon, at 4:37 p.m., the hearing was  
25 concluded.)

**CERTIFICATION OF TRANSCRIPTION**

**TITLE:** DRAMS andd DRAM Modules from Korea  
**INVESTIGATION NO.:** 701-TA-431  
**HEARING DATE:** June 24, 2003  
**LOCATION:** Washington, D.C.  
**NATURE OF HEARING:** Hearing

I hereby certify that the foregoing/attached transcript is a true, correct and complete record of the above-referenced proceeding(s) of the U.S. International Trade Commission.

**DATE:** June 24, 2003

**SIGNED:** LaShonne Robinson  
Signature of the Contractor or the  
Authorized Contractor's Representative  
1220 L Street, N.W. - Suite 600  
Washington, D.C. 20005

I hereby certify that I am not the Court Reporter and that I have proofread the above-referenced transcript of the proceeding(s) of the U.S. International Trade Commission, against the aforementioned Court Reporter's notes and recordings, for accuracy in transcription in the spelling, hyphenation, punctuation and speaker-identification, and did not make any changes of a substantive nature. The foregoing/attached transcript is a true, correct and complete transcription of the proceeding(s).

**SIGNED:** Carlos Gamez  
Signature of Proofreader

I hereby certify that I reported the above-referenced proceeding(s) of the U.S. International Trade Commission and caused to be prepared from my tapes and notes of the proceedings a true, correct and complete verbatim recording of the proceeding(s).

**SIGNED:** Gabriel Rosenstein  
Signature of Court Reporter