1	FEDERAL TRADE COMMISSION
2	THE EVOLVING IP MARKETPLACE
3	
4	THE OPERATION OF IP MARKETS
5	
6	Wednesday, March 18, 2009
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8	9:00 a.m.
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10	Federal Trade Commission
11	FTC Conference Center
12	601 New Jersey Avenue, N.W.
13	Washington, D.C.
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2		I N D E X	
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5	Panel 1:	Universities l 1:o01fNepreneurs	3

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                       PROCEEDINGS
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      PANEL 1: UNIVERSITIES AND ENTREPRENEURS
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      MODERATORS:
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      SUZANNE MICHEL, FTC
      ARMANDO IRIZARRY, FTC
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      PANELISTS:
      RON D. KATZNELSON, Ph.D., President, Bi-Level
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 9
      Technologies
      JOE E. KIANI, Chief Executive Officer and Chairman of
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      the Board of Directors, Masimo Corp.
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      JON SODERSTROM, Ph.D., Managing Director, Office of
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13
      Cooperative Research, Yale University
      THOMAS G. WOOLSTON, Chief Executive Officer,
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15
      MercExchange, LLC
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17
              MS. MICHEL: Good morning. Welcome to the
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      Federal Trade Commission. I'm Suzanne Michel, Assistant
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      Director for Policy in the Bureau of Competition.
      Welcome to what I believe is our third in the series of
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21
      FTC hearings on the Evolving IP Marketplace.
22
      we'll be looking at the way different companies,
23
      different firms and different industries participate in
24
      markets for intellectual property, for patents and for
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technology and the way that those markets promote the

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- 1 patent systems to innovate.
- We will be announcing today our next set of
- 3 hearings to be held on April 17. There will be a press
- 4 release going out. Please stay tuned for that. That
- 5 should be also a very interesting day. We will have the
- 6 CEOs of Ocean Tomo, Acacia and ThinkFire to talk about
- 7 how patent markets operate.
- I should also mention that tomorrow we will be back
- 9 here again talking about economic perspectives on patent
- 10 markets and how the notice function of patents affects
- 11 patent markets and how it might be improved,
- whether it's working fine, those kinds of things.
- Our first panel today is on entrepreneurs and
- 14 universities, and I will turn it over to Armando
- 15 Irizarry to introduce our panelists.
- 16 MR. IRIZARRY: Good morning. I'm Counsel for
- 17 Intellectual Property here at the Commission. It's my
- 18 pleasure to welcome you to these hearings. We're going
- 19 to give brief biographical information about the
- 20 panelists, and there's more complete information in the
- 21 hearing's web site at ftc.gov.

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1 inventions resulting from Yale's scientific research,
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- 2 including patent license agreements and information of
- 3 new business ventures. He has participated in the
- 4 formation of more than 25 new ventures, which
- 5 collectively have raised over \$400 million in
- 6 professional venture capital.
- 7 Dr. Soderstrom was a founding board member and
- 8 Past President of the Association of Federal Technology
- 9 Transfer Executives and the 2008 president of the
- 10 Association of University Technology Managers.
- 11 The next panelist is Joe Kiani. Mr. Kiani is
- 12 the CEO and Chairman of Masimo Corporation. Mr. Kiani
- founded Masimo in 1989 to improve the accuracy of non-
- invasive patient monitoring. Under Mr. Kiani's
- 15 leadership, Masimo has grown from a garage start-up into
- 16 a successful publicly traded medical technology company,
- employing over 1,700 people worldwide with annual sales
- 18 growth nearly 25 fold in the last five years.
- 19 Masimo has technology, license and OEM
- 20 agreements with leading patient monitoring manufacturers
- 21 throughout the world, and it is the leader in the
- 22 measure through motion and low profusion pulse oximetry
- 23 technology markets. Mr. Kiani is an inventor on more
- 24 than 50 patents. Currently, Mr. Kiani is Chairman of the
- 25 Medical Devices Manufacturing Association.

- Our next panelist is Thomas G. Woolston. Mr.
- 2 Woolston is an inventor and an entrepreneur. He's a
- 3 main inventor on nine U.S. patents. He's the founder
- 4 and CEO of MercExchange, LLC. He's on the Technical
- 5 Advisory Board of the George Washington University
- 6 School of Electrical Engineering and Applied Sciences.
- 7 He has organized companies, hired engineering talent and
- 8 raised venture capital and company financing.
- 9 His companies have been both plaintiffs and
- 10 defendants in intellectual property disputes. He has
- 11 been a principal negotiator for intellectual property
- and other types of business agreements. He was formally
- 13 with the United States Central Intelligence Agency and
- 14 the United States Air Force, and he's an engineer and a
- 15 lawyer.
- 16 Finally, on this panel we have Ron Katznelson.
- 17 Mr. Katznelson is founder and President of Bi-Level
- 18 Technologies in Encinitas, California. From 1990 to
- 19 2005jE 36onv0 0.s. Tgies in Enw0HiTrkn m 199i 0cnrg0000.000 0.

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1 Working Group and a co-author of the DOCSIS downstream
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- 2 digital transmission specifications.
- 3 He is an advisor to high-technology firms, and a
- 4 member of the San Diego Intellectual Property Law
- 5 Association.
- 6 At this time, we're going to have the panelists
- 7 make introductory remarks for about ten minutes each in
- 8 which they will be able to speak about their experiences
- 9 with the ability of patents to promote innovation and
- support the creation of new products, and we're going to
- 11 begin with Dr. Soderstrom. They may sit or come to the
- 12 podium.
- DR. SODERSTROM: I think I'm going to sit.
- 14 Thank you for the invitation to be here today and
- participate in this panel. Just as a point of
- 16 reference, I'm here representing the Association of
- 17 University Technology Managers, which is a membership
- 18 organization of over 3,000 members around the world that
- 19 are technology transfer officers from over
- 20 literally hundreds of universities around the world.
- 21 As research universities, we are major consumers
- 22 of intellectual property as well as generators. Our
- 23 research budgets tend to, on average, create one
- 24 patentable invention for every \$2 million of research
- 25 that we've performed for the various agencies.

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1
              To put that in perspective for you, literally we
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      filed -- thousand of patents last year were issued in
 3
      the names of universities. My own university, Yale
 4
      University, had over 200 new invention disclosures, and
 5
     we filed approximately 170 patent applications.
      had issued something on the order of 75 patents last year.
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 7
      We're not even in the top ten among universities, so
      just to put it in perspective, we are a major player in
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 9
      this market, but why do we do it?
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              In 1989 Congress passed a law called the
      Bayh-Dole Act which was to encourage universities to
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12
     patent and to commercialize inventions growing out of
13
      their research. Prior to the passage of the Bayh-Dole
14
      Act, very few universities were actually performing
      anything in this marketplace -- my own university being
15
     no exception to that. With the passage of the Bayh-Dole
16
17
      Act, many of us have become much more active in our
     participation, and that has grown every year for the
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19
     past 30.
              What's it accomplished? Well, just to put this
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      in perspective, in the past year, in the past year that
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22
      we have data which is the year 2007, over 500 new
      companies were formed based on intellectual property
23
24
      that was produced by universities. Many of those formed
25
      were supported by professional venture capital, and of
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- 1 those that have been formed since the passage of the
- 2 Bayh-Dole Act, over 3,400 are still in operation here in
- 3 the United States.
- In the year 2007, approximately 700 new products
- 5 were introduced on the marketplace, and in the past
- 6 decade, over 5,000 new products have been introduced.
- 7 For universities, obtaining patents is an important
- 8 aspect of what we do, but it's not the end all and be
- 9 all.
- The most important thing that we can do with
- 11 those pieces of intellectual property is to
- 12 commercialize them, and the only way that can be done is
- in partnership with companies. We like to say the
- question for universities isn't whether we're
- 15 going to license the intellectual property, the only
- 16 question is to whom. Is it going to be an existing
- 17 company like Masimo, which we've done business with in
- 18 the past, or is it going to be a new company that we
- 19 start?
- 20 And for any of those companies, the most
- 21 important thing is how strong is the intellectual
- 22 property that we can provide because after all, the
- 23 importance for the company is how safe is their
- investment going to be? Are they going to be able to

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1 most of the products, most of the inventions that we are
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- 2 coming up with are a long way from the marketplace and
- 3 are going to require a substantial investment over a
- 4 period of time, and that requires protection for the
- 5 stockholders and other investors.
- 6 So, we are clearly in favor of a very strong
- 7 patent system that both issues quality patents, i.e.,
- 8 high validity but also has assurances that they are
- 9 going to be withheld, sustained within the court system,
- and we will be able to protect them, protect our
- investments over time, and with that I will stop.
- 12 MS. MICHEL: All right. Thank you. Let's see.
- 13 Let's get Joe's slide up there. Just hit page down.
- 14 MR. KIANI: Thank you so much, Suzanne. Thank
- 15 you. Good morning. I'm very happy that the FTC is
- 16 looking into intellectual property and its value.
- 17 While I'm honored to be here today to speak
- 18 about Masimo and how intellectual property impacted
- 19 Masimo. We're only one story. At Masimo we have a
- 20 saying, "in God we trust, but for everything else we need
- 21 data," so we hope that FTC will do just that, get the
- 22 real data. I know a lot of anecdotal data is thrown
- 23 out, but the real data so that hopefully the right
- 24 solutions are recommended.
- Our focus must be to foster innovation and our

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1 economy and further enhance the U.S. as the world leader
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- 2 in innovation. I am an electrical engineer. I have my
- 3 bachelor's and master's in electrical engineering. I
- 4 founded Masimo actually 20 years ago, and I've
- 5 been the CEO of the company. I'm now also a Chairman of
- 6 Medical Device Manufacturers Association representing
- 7 over 200 medical technology companies from basically a
- 8 few employees to a company like ours, which has about
- 9 2,000 employees, but I also speak on behalf of the MDMA
- 10 today and not just Masimo.
- 11 I started Masimo in my garage, and we invented a
- 12 disruptive technology, and the reason I wanted this
- 13 slide up, but it doesn't matter, I can show you here, I
- 14 know sometimes the dialogue that's been had regarding
- 15 intellectual property has been -- is it between pharma
- 16 and technology companies? It isn't.
- We are a technology company. I think as you can
- 18 see up there, we make circuit boards that we
- 19 provide to the industry as an OEM company. We make our
- 20 own end-user product. In fact it has rotational screen
- 21 since 1999. I know the iPhones do too these days.
- 22 General systems, software and many sensors, so really
- 23 this isn't about pharma versus tech. We are a tech
- 24 company serving patients and doctors and hospitals.
- Today we are a \$300 million a year revenue

- 1 company. We're a public company traded on NASDAQ, but
- 2 the hill we had to climb to get here was not an easy
- 3 one. We had many obstacles, and despite the
- 4 frustrations that we had with the patent system, without
- 5 it, we wouldn't be here today, and any changes that are
- 6 going to be made to the patent system should be
- 7 considered cautiously.

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1 as there was low blood flow or patient motion, the
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- 2 products didn't work. Over 70 percent of the alarms
- 3 were reported to be false alarms, and the industry had
- 4 given up.
- 5 They thought that was just impossible to solve.
- 6 They tried. They just had given up. There was an
- 7 entrenched company with 80 percent market share making
- 8 80 percent margins, despite the fact that pulse
- 9 oximetries didn't work when you really needed them.
- 10 That company had commercialization wired, but in our
- 11 view they were no longer innovating.
- 12 As I stated earlier, the industry thought it was
- impossible to solve this problem. Yet, we did not think
- 14 so. We thought we could solve it, and our innovation
- 15 was the only thing we had. At 24, I didn't have
- 16 commercialization experience. We didn't have any
- 17 manufacturing. We didn't have any distribution, so the
- 18 patent was very important because significant investment
- 19 was necessary.
- I initially got a second mortgage on my condominium
- 21 but later we raised \$90 million through venture capitalists.
- 22 Every time we got serious with a venture capitalist,
- 23 they wanted to understand if our patents had teeth, if
- 24 we could really protect our innovation, and fortunately
- we did. Fortunately they felt good about it, and our

- 1 innovation today has been responsible for saving many
- 2 people's lives, many lives of babies.
- 3 The rate of eye damage in a neonatal intensive
- 4 care unit used to be about 12 percent according to

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1 found they had CO poisoning.
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- 2 They went back to the hotel, and they found --
- 3 motel and they found that there was a problem, and the
- 4 head of Emergency Medical Services, Skip Kirkwood, said
- 5 that over 50 people would have died had it not been for
- 6 our technology and their intervention.
- 7 So, last but not least, we recently also have
- 8 developed a way to measure hemoglobin non-invasively, and
- 9 again we're getting, just in the clinical study stage
- alone, and I'm not going to bore with you more stories,
- 11 but we've been able to save many lives.
- 12 Now, we could not have raised the money to
- accomplish what we have without our investors being
- 14 confident that our patents would protect our innovation.
- 15 In addition, we needed our patents to protect the
- 16 investment from the entrenched company. In fact, after
- seeing demand for our product, the entrenched company
- 18 decided to make their own.
- 19 Well, it was never quite as good as ours, but
- 20 they did violate our patents and introduce a product
- 21 that would get close to what we were doing. This
- 22 company hoped that our patents wouldn't stand. They
- 23 hoped that we couldn't afford patent litigation. They
- 24 countersued us with ten patents. They sued our
- 25 customers to stop our distribution. They bought a

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1 company that had been out of business for 12 years,
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- 2 which I worked at when I was 23 years old, and tried to
- 3 say they owned all of my inventions. They sent
- 4 letters to our customers saying they were suing us and
- 5 suggesting we would go out of business. Even under
- 6 existing damages law, they seemed to believe that
- 7 infringing was worth a try.
- 8 We fought over six years through discovery,
- 9 summary judgment motion, Markman hearing, jury trial,
- 10 post jury motions by the Judge and by the attorneys,
- 11 the Judge, and finally the Federal Circuit Court of
- 12 Appeals. We eventually prevailed. We won. We got an
- award for \$134 million and an injunction, and it all
- 14 seems good now, but it was the hardest thing I had ever
- done.
- It was a lot of hurdles and problems that we
- 17 had, but the results are that patients today are being
- 18 saved. Babies are going blind far less, and would be
- 19 innovators feel more like they can innovate and succeed
- 20 because of our technology and our victory in the courts.
- One significant reason was our patent system had
- 22 teeth. I don't think I would have been -- I certainly
- 23 wouldn't have been here today if it didn't have teeth,
- 24 but I'm not sure Masimo would be here today. We, like
- others, have been sued by the so-called trolls hoping to

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1 shake us down for some money. Although devaluing
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- 2 patents will undoubtedly minimize or eliminate my cost
- 3 of defending Masimo against unwarranted patent troll
- 4 attacks, I believe the detrimental effects will
- 5 overwhelm any possible benefit.
- If the troll problem is to be addressed, it
- 7 shouldn't be addressed with a hatchet but a delicate
- 8 carving knife to address the specific problem. Why?
- 9 Because I know that our innovation would have not seen
- 10 the light of day, and patients would have been harmed by
- any further erosion of the patent rights. Any further
- 12 erosion of patent rights for innovative companies will
- make it more difficult for the next Masimo, and it was
- 14 already unbelievably difficult.
- 15 As Hernando DeSoto, a Nobel Prize nominee,
- 16 explained, successful free enterprise requires an
- 17 effective system of property ownership rights. For
- 18 decades, the U.S. economy and innovation has benefitted in
- 19 a face of a worldwide competition to well-defined
- 20 property rights for innovation.
- The U.S. patent system has protected and, thereby,
- 22 encouraged an entire innovation economy, and while
- 23 regrettably many factory jobs have moved out of the
- 24 U.S., knowledge workers have thrived with improved
- 25 standards of living. We should take the opportunity to

- 1 strengthen our protection for innovation that drives our
- 2 economy rather than weaken it.
- 3 At a time when our economy has slowed down and
- 4 healthcare costs continue to rise, we must do what we
- 5 can to spur innovation and strengthen intellectual
- 6 property ownership which encourages entrepreneurs and
- 7 investors to take chances at improving our world.
- 8 Through this innovation based economy, we can
- 9 among other positive things create knowledge-based
- jobs and improve and expand our healthcare to all who
- 11 need it, making it more efficient and effective.
- 12 Thank you very much. I look forward to hearing
- 13 the other panels members and the Q&A session. Thank
- 14 you.
- MS. MICHEL: Thank you, Joe. Tom?
- MR. WOOLSTON: Hi, good morning. Thanks.
- 17 Thanks to the panel and the FTC for having me. That's a
- 18 tough act to follow. Joe's very successful. I've beeeno.dr, Te. 0

- 1 patents and deciding we had to do something else because
- you couldn't protect market share without patent
- 3 protection, without injunction protection.
- 4 We had a Final Determination by the highest
- 5 court on validity. That didn't deter the PTO from
- 6 continuing its reexamination, which has been going on
- 7 for six years. I don't know if we were the first,
- 8 probably the second party to a post

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1 MercExchange case has already hit existing statutes and
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- 2 what I hope I can add. Very I think unintended ways
- 3 they've already hit it. For example, 28 U.S.C. 1292 ©)
- 4 (2) allows the district court to enter a final judgment
- 5 but not a final accounting, so you can go up to the
- 6 Court of Appeals without a final accounting.
- Well, in light of the eBay decision, there's no
- 8 relief at all because if a court denies a permanent
- 9 injunction and doesn't do a final accounting, there's no
- 10 information to make business decisions whether or not to
- 11 exit the market or double down and try to enter the
- market so these are some of the things I like to add to
- 13 the panel today.
- 14 MS. MICHEL: Thank you. And Ron? Feel free,
- 15 would you like to go to the podium with your slides or
- 16 we can move them for you.
- DR. KATZNELSON: Is there a control there? I'll
- do it at the podium because there's a control there.
- 19 MS. MICHEL: Yes. Hit the down arrow.
- DR. KATZNELSON: Let me check. Okay. This is
- 21 going to be a little more data than the other speakers
- 22 have put together, but partly because of the nature of
- 23 the set of the questions that we received initially, as
- 24 advance questions. So I'll make some comments on only
- one aspect of the topic today, and that is patenting

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issue, but that's the context under which I'm going to
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- 2 show what has happened to us and what would have
- 3 happened had first to file been in place.
- 4 Broadband Innovations started technology
- 5 development back in the early '90s in a very promising
- 6 technology. The core product was a broadband decoder
- 7 device on the side of the house. We've developed this
- 8 over the years, secured investments from AmeriTech, the
- 9 Baby Bell, and later in '96 by Motorola.
- 10 Field trials and activities occurred in this
- 11 time frame, and we obviously needed to develop other
- 12 supporting technologies and so on. Each of those dots
- represents a patent application. We had numbers and
- 14 some of them are shown with C-1, which means
- 15 Continuation 1. Some shown with CIPs and so on.
- 16 The point is that during the course of this
- development, we found that the area that we got into,
- 18 the consumer customer premise equipment wasn't really
- 19 working for us. So, we moved to a head-end type
- technology, but again using the same core intellectual
- 21 property through continuations. So the transition from
- 22 that market was really accomplished through the process
- 23 of continuation. The same disclosures that were used,
- we relied on back in 1992, we were still filing
- continuations in the late '90s. This slide shows the

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1 case.
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- Now, we were able to secure strategic investors,
- 3 Motorola and Scientific Atlanta, both of whom would
- 4 were customers and strategic partners.
- Now, what would have happened, if first to file
- 6 was in place: We probably would have filed a whole
- 7 bunch more applications as this shows. The reason
- 8 for that is because as you develop some of this work,
- 9 you're not sure which one is going to succeed. You're
- 10 actually having to establish priority. You go race to
- 11 the Patent Office. You file it, and this would have
- 12 been the result.
- 13 And these are specific inventions that we had or
- 14 some improvements that we had that we tested. Had there
- 15 been a first to file, those that would
- 16 have been filed at the Patent Office, and they're shown
- in different color here.
- 18 Now, Steve Perlman, a friend of mine who was
- 19 the inventor of WebTV, has likened this process and
- 20 actually showed his process of going through five years
- 21 of development. Again he had 24 different ideas, tested
- them all, did refinements, got some key insights, did
- 23 some rethinking. All of these boxes would have
- 24 represented a patent application at the Patent Office
- 25 had first to file be in place.

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1
              As a result, you can see that in the first to
 2
      invent, only six or seven of them were actually filed
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     but only the good ones, the successful ones, so that is
 4
      the promise of first to file. It would be a process
 5
      where a lot of applications would, in fact, be useless to
      their filers.
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 7
              How do we know that? We see data.
                                                 This is the
      result of an EPO analysis of the two types of
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 9
      applications that were filed in the European Patent
      Office. Applications that were filed with first
10
     priority, in other words, the first time they were ever
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12
      filed in EPO, they're called EPO first filings, had
     basically been abandoned a lot more frequently than
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14
      those that were filed without reliance of the filing
     date as a priority date, because they had prior
15
16
     priority.
17
              You can see that first to file causes a lot of
     people just to run to the Patent Office, file something
18
19
      and see if it sticks.
                             The result is that over 58
20
     percent were never even reaching the examination phase.
21
      A lot of people just gave up or they just didn't see the
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24 Perhaps a lot of them would have gotten some 25 claims. The determination of patentability doesn't

saw a different way.

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value of these patents for them because they actually

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filed until later than one or two years after the
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- 2 disclosure. First to file means all of this delay is
- 3 going to generate a huge loss in priority value to U.S.
- 4 inventors. This is a study from six different
- 5 universities. I believe that much of what's happening
- 6 here, the dynamics of looking at inventions, looking to
- 7 see the experimentation of it, looking to see the
- 8 funding of it, all of these factors affect the way we do
- 9 business in America in terms of invention and
- development. First to file will upset this whole
- 11 process.
- 12 Perhaps all the invention disclosures that don't
- get filed today will get filed. This is an example of
- 14 the data showing that about 60 percent of all disclosure
- 15 reaching university transfer, technology transfers
- 16 actually get filed ultimately with priority application.
- 17 Chances are with no time to decide, all of them will be
- 18 filed or a great many of them would be.
- 19 So the first to file would change how we do or
- 20 not do business in this country. A concern that an
- 21 established strategic partner may misappropriate ideas
- 22 disclosed under NDA and generated it's own parallel
- 23 first to file priority process in competition would
- 24 discourage a company like mine from disclosing and
- 25 dealing with it. It's in the most crucial stage of our

- 1 development.
- 2 There will be chilling effects on joint
- 3 developments. Responses to RFPs may not be
- 4 substantially informative. Substantive investors or
- 5 prospective licensee's due diligence would not really
- 6 take much place. Marketing communications would be
- 7 different.
- 8 When I put myself in a position about thinking
- 9 of first to file, I came to the conclusion that the
- 10 history that happened at BI, Broadband Innovations,
- 11 would not have been possible. This is probably what
- would have likely to have happened.
- 13 You can see a lot of first to file applications

- 1 else.
- 2 So the conclusion is that first to file would be
- 3 very harmful, and what you've seen in my company's
- 4 development wouldn't have happened I believe. It will
- 5 result in a flood of shallow and race to the patent
- office type patents. It would encourage paper
- 7 inventions that are untested. It would generate more
- 8 work for the PTO and more fodder for trolls.
- 9 Under the first to file, innovators would have
- 10 to invest R&D in non-infringing solutions, designing
- around patents that would have never issued under the
- 12 current system. Now, that's not an insignificant burden

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1 to invent system struck a systematic legal balance
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- 2 between the written disclosure and the enablement
- 3 requirements and patentee's priority entitlement. It's
- 4 a very delicate process, a very elaborate one which you
- 5 all know from case law.
- 6 We are experts in how to deal with these issues
- 7 today. Over the years we developed expertise in
- 8 managing R&D projects, disclosure, engineering
- 9 notebooks, a process that will go out the window. We
- 10 will take years to learn how to operate and how to
- innovate and how to collaborate under the first to file.
- 12 Also R&D that now has some incentives being
- internally in the U.S. Because you have priority, if
- 14 you can demonstrate due diligence and reduction to
- 15 practice in the U.S., you get the entitlement. If you
- 16 do it abroad, you don't.
- 17 Well, the first to file would basically take
- 18 away these incentives from multinational companies. R&D
- 19 will move more away. From the point of view of
- 20 priority, you would lose that, and remember, priority is
- 21 required for a lot of companies, and remember there's
- 22 about 10 percent of the applications that probably would
- 23 have lost more than a year or two years of priority.
- 24 So first to file is touted as the next big
- 25 thing, but is it worth it? Thank you.

1 Thank you, Ron. Those were MS. MICHEL: excellent presentations. We very much appreciate it. 2 3 think we can see we have a top notch group of panelists 4 here, and I appreciate their time coming and sharing 5 their stories with us. You all spoke about the importance of patents in 6 7 raising venture capital. Talk about the difficulty that you face before you have that patent and you're working 8 9 on the technology and developing it and trying to pursue 10 that patent, no venture capital at that point, what do you do? Joe? 11 12 13 MR. KIANI: Actually that's a really good 14 question. Before we filed our first patent on our 15 technology, we did not even go to venture capitalists, so we raised our money from friends and family because 16 17 we knew that the investors wanted to see something tangible, and they wanted to analyze it. 18 19 MS. MICHEL: And as panelists would like to 20 address the question, just turn up your table tent, and 21 we will call on you and keep the conversation going, and 22 feel free to comment on anything that comes up that you would like to share. 23 24 How did you approach the patent system or the

patent application process at that point? This must

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1 have been a new experience for you to be thinking about
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- 2 patents. It's a fairly expensive process. What kinds
- 3 of difficulties did you face in even thinking about
- 4 pursuing a patent?
- 5 MR. KIANI: Well, I guess I'll turn my card up.
- 6 MS. MICHEL: I know Joe's had direct experience
- 7 on this.
- 8 MR. KIANI: Well, one of, of course, the
- 9 negatives of filing patents is the time it takes for the
- inventors to try to disclose their area to a patent
- 11 attorney and file it. Another one is the expense of
- 12 filing patents. I can't even imagine under the
- post-grant opposition world that's being talked about
- 14 today what we would have done because at the time we
- 15 filed our first two patents, literally our burn rate
- 16 with \$5,000 a month.
- 17 And filing the two patents cost us about
- 18 \$20-25,000 and we didn't have to then worry about
- 19 expenses for awhile. In the post-grant opposition
- 20 world, I think my costs would have been another \$100,000
- 21 to 200,000 to potentially try to just defend my patents
- 22 before they could issue, which meant I wouldn't have
- 23 been able to talk to investors about raising money even
- 24 more, even longer before doing that.
- MS. MICHEL: I see. Jon?

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1 extraordinarily expensive, and it's a problem that we're
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- 2 all going to have to face somewhere down the stream,
- 3 because the current models that we've all followed,
- 4 particularly in the life sciences and biotech, for
- 5 investing in these development of these inventions and
- 6 new products is pretty broken at this moment.
- 7 Everybody I talk to would concur in that. So
- 8 I think that we're going to have to come up with some
- 9 innovative new strategies for how we're going to get
- 10 this done because friends and families might have been
- 11 the place you went, but last time I looked their bank
- 12 accounts shrunk.
- 13 MS. MICHEL: All right. Once you have that
- 14 first patent application on file, how do the
- 15 uncertainties surrounding the outcome of the application
- 16 process affect your ability to raise capital? Can you
- 17 raise capital with just an application on file? Tom?
- 18 MR. WOOLSTON: We weren't. But the world
- 19 definitely changes when a patent issues because all of a
- 20 sudden the rights are defined. There's a claim scope,
- 21 and it took me from 1995 to '98 to have the first patent
- 22 issue, and I had a license and was off and running
- 23 within four weeks of issuance, so it was like magic for
- 24 us.
- The difference between a pending patent really

- 1 meant very little other than you had something on file
- 2 that protected it, and you had a little liberty to go
- 3 out and discuss things without NDAs because you had a
- 4 placeholder.

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1 specification. We're also concerned about interference.
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- One way to invoke inference is to copy one's claims. You
- 3 automatically get interference in the Patent Office, so
- 4 there was a challenge of how to do that. Not all
- 5 claims were written or applied for initially too, so in
- 6 some respects, the disclosure was the body that we were
- 7 disclosing, not the claims.
- 8 MS. MICHEL: Okay. Jon?
- 9 DR. SODERSTROM: Just again a couple of quick
- 10 observations. I think it varies by industry. In the
- 11 area of life sciences in particular, we find that most
- 12 everything that we license is in the form of a patent
- application, and that's after a lot of vetting, but the
- vetting is usually around the quality of the science.
- 15 So there's a lot of looking at hiring people to
- 16 do due diligence that are essentially doing what the
- 17 Patent Office does for a job, which is trying to see
- 18 whether or not in their best opinion the claims are
- 19 likely to issue as filed, and what the supporting data
- 20 is. That's in life sciences.
- Other fields, electronics information
- 22 technology, et cetera, I find you don't even have a
- 23 conversation without issued claims, and that's just as
- 24 simple as that. So it mirrors exactly what the two
- gentleman, Tom and Ron, were saying in terms of the

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1 difficulty of having the conversation, and part of the
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- 2 difficulty is you can't get a non-disclosure agreement in
- 3 place.
- 4 MS. MICHEL: Okay. Does the backlog at the PTO
- 5 then raise a concern in life sciences if you're able to
- 6 have these conversations based on applications?
- 7 DR. SODERSTROM: The backlog is a concern no
- 8 matter what because eventually you have to raise more
- 9 money. While that's okay for the first round of
- investment, it's not going to be acceptable when you get
- into the institution, the big institutional investors,
- 12 and so therefore they do want to see issued claims.
- 13 They don't want to bet on it.
- MS. MICHEL: What do you mean by big institution
- 15 investors?
- DR. SODERSTROM: I'm talking about the hedge
- funds, private equity funds, the large players that are
- 18 managing billions of dollars as opposed to hundreds of
- 19 millions.
- DR. KATZNELSON: Trying to stay away from risk.
- DR. SODERSTROM: Absolutely, absolutely.
- MR. WOOLSTON: It doomed our company.
- MS. MICHEL: The backlog at the PTO?
- MR. WOOLSTON: Oh, yeah. Hindsight is 20/20 -
- but we look back now and our major competitors already

- 1 had a lot of momentum by 1998 by the time our patent was
- 2 issued. It was filed in '95. Something I can kind of
- 3 share with the panel is how compressed -- we were an
- 4 internet technology -- just how compressed the business
- 5 cycle was. It was probably a hundred year business
- 6 cycle compressed into four years, right?
- 7 There's only four players left, and usually it
- 8 takes a hundred years for industry to shake out like
- 9 that. But, we were late, and we would have -- it would
- 10 have taken billions and billions of dollars worth of

- 1 too. It's a diminishing asset. I mean, people are on
- 2 to the next big thing and they're innovating around it
- 3 so there's a finite life span of technology, period,
- 4 patents or no patents.
- 5 MR. IRIZARRY: Tom, Jon mentioned in the area of
- 6 life sciences, they get licenses on patent applications -
- 7 you mentioned you have to wait to get the patent,
- 8 and then within four weeks you have your first license
- 9 or something like that.
- 10 MR. WOOLSTON: Right.
- MR. IRIZARRY: What was the vetting process?
- 12 Did you just show up and say we have a patent and they
- took your word for it or was there also due diligence
- work done and who did that due diligence in the field
- 15 such as yours, in the electronic Internet space?
- MR. WOOLSTON: Well, we were in a pretty crazy
- 17 time that you could take companies public like pets.com
- 18 on just a concept and raise billions of dollars. So we
- 19 had an interference proceeding with Priceline.com, which
- is actually one of your questions -- "3Ramdot youdod8"h555555tlik

- 1 rank. That's when the dot.com lightening
- 2 struck us, and we raised \$12 million and got the thing
- 3 rolling.

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1
              MS. MICHEL: You yourself?
 2
              MR. KIANI: Me myself to go through -- those
 3
      days they had the -- I can't remember what they called
 4
      the films -- microfiche, thank you, microfiche to see
 5
      all of the other related patents to what I was thinking
 6
      of doing, and the reason that was important to us
 7
      wasn't just because, "Well, are we going to file a patent
      or not?" I was trying to see if my invention was
 8
 9
      important enough to start my company or not.
              So I spent a lot of time doing that, and before
10
      we filed our initial patents, we even had our patent
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12
      attorneys, Knobbe Martens, to do a check for us to
      see, Well, is there anything like this, if I missed it.
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14
              So I did that early on. I don't do that
15
      anymore, but we, throughout many years, have watched and
     monitored companies as well as titles and interesting
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17
      subjects to make sure we understand what's getting
18
      issued and what's out there.
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              MS. MICHEL: Okay. Ron and then Tom?
              DR. KATZNELSON: To me the initial effort for
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21
      the technology we developed was to try to find a
22
      different way to decode a whole bunch of signals
      simultaneously as opposed to a single channel at a time,
23
24
      decoding what people view, so it had to be backward
25
      compatible to existing encoding methods out there. So,
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obviously there had to be a very careful analysis of the
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- 2 patents of these encoders and decoders, and to find a
- 3 way that we do it totally differently and a way that
- 4 does a whole bunch of channels instead of just one, but
- 5 also in a way that doesn't read on the claim so the
- 6 claims won't read on that.
- 7 That is the virtue of a design-around, because it
- 8 actually produces a potentially different solution for a
- 9 similar problem and encourages new inventions. We were
- 10 fortunate to be so different and so differently
- 11 approaching the problem that we felt pretty comfortable
- in that process, but going forward beyond that, there's
- always a challenge of trying to look at the intellectual
- 14 property of others. What do you do, especially in the
- 15 internet days when every engineer in a company has
- internet access and the PTO database is out for free. I
- mean, people would just look at these patents and google
- 18 stuff out.
- 19 You cannot avoid, you cannot prevent your
- 20 engineers from looking at these things, and so I've
- 21 always had a concern with treble damages issues. Do I
- 22 have a record of all my engineers having seen something,
- 23 and I don't know about it? So we had a policy that
- 24 essentially engineers don't look at claims. They only
- looked at disclosures, so they have to understand the

- difference between the two. They're not attorneys.
- 2 So once you have a written policy and that's
- 3 something I recommended, it may not be a solution but it
- 4 would be some ways to insulate engineers from having an
- 5 institutional ability to look at claims, and so when

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1 IP copyrights were going to sort out, and it sorted out.
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- 2 Congratulations, Google, you did it, but that doesn't
- 3 mean the copyright system needs to be thrown out.
- It doesn't mean that authors don't need to get
- 5 paid, and I feel the same way about the patent system.
- 6 It's okay, you survived. There are a lot of broken
- 7 companies around. To me the irony of some of this
- 8 debate is people complain about the trolls and the
- 9 aggregators, and I'm not even sure what some of these
- 10 definitions are, but isn't part of this result from the
- 11 low value of intellectual property that creates the
- 12 opportunity to aggregate?
- I mean, you wouldn't need to aggregate a strong
- 14 right. You would aggregate weak rights, and so it's
- 15 part of the unintended consequences you're having now.
- 16 It's like, well, if patent rights are stronger, there
- would be more ability to raise capital, more ability for
- 18 companies to start, to get a product in the market,
- 19 maybe more M&A work but less patent suits. You only
- 20 bring a patent suit when you're losing in the
- 21 marketplace.
- 22 When you have a competitor enter the marketplace
- and you have price erosion or a knock-off, that's when
- 24 you bring a patent suit. You don't bring a patent suit
- when you're Microsoft and you're dominating the

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1 marketplace, and you have something much better than a
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- 2 patent. You have market power. That's a lot better
- 3 than a patent, and so almost by definition a patent is
- 4 enforced when you are on the down slope of the market
- 5 share.
- 6 MR. KIANI: One of the comments I wanted to
- 7 make, Suzanne, is I think a lot of people think about
- 8 patents as forever. We understand -- when you think
- 9 about it, obviously it's only 20 years, so I think going
- 10 back to -- the backlog of the Patent Office, well it
- 11 eats into that life you're supposed to enjoy your
- monopoly that's legally given to you. But I think what's
- 13 more important is that going back to understanding other
- company's patents and respecting other company's
- 15 patents.
- We believe, first of all, that if you find a
- valid patent out there, either we don't practice it or
- 18 we go try to buy it or license it. We don't think
- 19 every bright idea has to be in our product if we can't
- 20 do one of those two things, so one of, I think, the
- 21 misnomers is it's so hard to understand what's out there
- 22 and then you get stopped.
- Well, sometimes maybe you do miss something. In
- fact when we sued our main competitor, they counter-sued
- us back with ten patents. We were able to defeat

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1 nine out of those ten patents. The one patent that was
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- 2 still standing, we just said, You know what, we're just
- 3 going to take it out of our product. I think what's
- 4 important about that, again talking about some of the
- 5 things that are being talked about today with the Patent
- 6 Bill, they're talking about apportionment of damages.
- 7 And I hear the story that, Oh, well there's some
- 8 small innovation part of a much bigger thing like let's
- 9 say the font, some new font in Microsoft Office and
- 10 somehow they're held hostage for this one little
- invention, a half a percent of a lot of money.
- 12 First of all, the current system allows you to
- take that out, and under the Georgia Pacific factors, you
- 14 potentially only have to pay the damages on the
- amount of money it took you to get it out, which is
- 16 maybe \$10,000 or \$50,000. The only reason I bring
- that up is because I think when we're looking at our
- 18 current patent system, although it's not perfect, it
- is -- it is much better than anyplace else.
- 20 And while we look to improve it, what we
- 21 shouldn't do is to follow a practice done by other
- 22 countries that we know didn't get good results. This
- 23 whole -- you mentioned the first to file versus first to
- invent. Well, Europe has done this, this whole
- post-grant opposition. Well, Europe has done that.

- 1 Well, they're not better off than us in innovating so I
- 2 hope that helps.
- 3 MS. MICHEL: I would like to talk about the next
- 4 stage of the process after you've come up with the
- 5 initial invention and filed that first patent
- 6 application, and you continue development and how
- 7 important it is to continue that development before you
- 8 can sell, license or commercialize your technology and
- 9 the role of the IP in that stage of the process.
- 10 And I know, Ron, you were talking about the
- importance of continuations at that point. Could you
- 12 spin that out for us a little bit?
- DR. KATZNELSON: Well, there are several aspects
- of the importance of that. One is the evolving law of

you're focusing on the claims that you know you will

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1
              A lot of times they're different. They're
 2
                They're directed at different elements, and so
      to characterize this thing as rework does quite a bit of
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 4
      injustice to the process. So claim coverage is
 5
      important and continuation is that step.
 6
              CIP is an additional element. We have in this
 7
      country an incentive to disclose improvements which do
      not exist in other countries. You cannot file a CIP in
 8
 9
      Europe, for example, in a way that is similar to this
      country. Your own priority application may count
10
      against you as prior art where here it's not, but the
11
12
     point is that there's an element here that has worked
13
      for over a hundred years, and we sure hope it's not
14
      going to change.
15
              MR. ADKINSON:
                             Joe?
              MR. KIANI: I wanted to add on the whole
16
17
      continuation, one of the thing's Ron said earlier is he
      teaches people to look at claims and not specification.
18
19
      We actually do the opposite because of the continuation.
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- When we look at our own patents as well as others, we
- 21 look at the specification, because we think continuation
- is a very important practice, and if you've specified
- it, you're able to eventually build defenses.
- I liken it to if you've got a big land tract
- and you're going to build fences around your land, you

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1 can't do it overnight. It takes years of investment to
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- 2 slowly build that fence and without the continuation
- 3 practice, the value of filing patents is to me almost
- 4 zero because there's no way the initial patent you filed
- 5 with the claims you filed will end up protecting the
- 6 invention you disclosed.
- 7 MS. MICHEL: Do you experience the downside of
- 8 that though in the sense if you want to avoid someone
- 9 else's patents and you see a specification out there,
- 10 you don't know what claims might emerge from that patent
- 11 later?
- MR. KIANI: Well, if I could just answer that,
- we don't think of it as a downside. We actually think
- 14 we have to do our homework. That's why I said initially
- 15 we don't look at claims. We look at the specification,
- 16 and unless we can see that specification part in a prior
- art, whether it's a product, whether it's a patent or
- some public disclosure, we stay away from it.
- 19 MR. WOOLSTON: We had like 12 restriction
- 20 requirements on our prosecution. Do you know what that
- 21 is?
- 22 MS. MICHEL: Yeah, yeah. Wow, that's a lot.
- 23 MR. WOOLSTON: And that forces you to file a
- 24 division.
- MS. MICHEL: A divisional?

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1
              DR. KATZNELSON: Divisional.
 2
              MR. WOOLSTON: I don't think you can address one
 3
      without addressing the other. Abolish the practice, I
 4
     mean just take it out of PTO's practice if they can
 5
      enforce -- divisional. You can't have one without the
      other. You can't let the PTO force divisional
 6
 7
      requirements and then limit the number of continuations
      you can file because that's out of your hands.
 8
 9
              MS. MICHEL:
                           Okay. All right. Ron?
              DR. KATZNELSON: I think as said earlier here,
10
      the issue of notice, whether the claims are necessary to
11
12
      give proper notice or whether the specification should
      suffice, in a lot of cases, as you said, the spec really
13
14
      tells you what could be claimed. In fact, so much so
15
      that the Patent Office has in the MPEP a requirement in
      the search by examiner to not just look at what the
16
17
      claims are, to look at what the spec -- what claims may
     be brought in view of the spec.
18
19
              So there's an understanding, a mechanical
20
      understanding of the relationship between possible
21
      claims and a spec that apparently the PTO understands.
22
      When you file an accelerated examination with the PTO,
     your search report that you have to submit has that
23
24
      requirement that you not only look at the claims -- that
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the search that you make is not solely for the claims

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1 you're making but also to match your disclosure as to
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- 2 what may be claimed.
- If we know how to do that at the PTO, and we
- 4 know how to do it when we file accelerated examination,
- 5 I don't understand why we wouldn't be able to do what
- 6 you're saying. It's true, that should be viably
- 7 possible, so I think there's quite a bit of notice in
- 8 the spec itself, and when I said we don't look at the
- 9 claims, the engineers didn't look at the claims because
- of treble damages issue, willfulness issue. They look
- 11 at the spec only for purposes of design.
- 12 MR. WOOLSTON: I think there is a statutory
- provision when 18 month from its filing date that
- 14 you can relate damages back to the publication date if
- 15 the claim eventually issues substantially the same.
- MS. MICHEL: Okay. Thanks.
- MR. IRIZARRY: Once a patent issues and you're a
- 18 young entrepreneur, sole inventor, many times you enter
- into agreements with larger companies, your
- 20 main competitors in the marketplace, all those -- what
- 21 factors do you take into consideration under a decision
- 22 to go at it alone and make your own company or to
- 23 license your technology to others or whether to sue or
- sell the patent to others?
- MR. WOOLSTON: Well, in our case because the

- 1 business model for some of the companies -- I'm looking now
- 2 at Bi-level Technologies because to the extent that I
- 3 ever thought to be efficient I would go out and
- 4 license them under patents, now it's clear to me that I
- 5 ought to be practicing in a way that the licenses are
- 6 not under the patent but under some OEM arrangement, and
- 7 there's some tangible element beyond the patent that's
- 8 conveyed to the customer.
- 9 It means that I now have to look at a different
- 10 structure of the business that requires additional
- 11 resources to put together a different model, not just a
- 12 licensing of the patents, but actually a development
- model, the more people, more investments.
- So the *eBay* decision actually caused us to look
- at the way we do business in a longer path than we
- thought we would have been able to do primarily because
- we envision a low ability to interest licensees with
- 18 just the patent. It's hard to negotiate an arrangement
- 19 when you know that you're not going to be able to enjoin
- 20 them if they infringe.
- 21 MS. MICHEL: Okay. Jon?

- 1 question is: Does the company exist or not? From a
- 2 risk standpoint, you certainly would like to license it
- 3 to an existing company, to the extent that they're
- 4 willing to commit that they're actually going to develop
- 5 it.
- 6 What that tells you, and this gets back to the
- 7 question of weak versus strong patents, from a
- 8 university standpoint we have to go after strong
- 9 patents. Weak patents have no basis. Nobody is going
- 10 to license them and you're not going to be able to raise
- venture capital if you're going to have to start a
- 12 company.
- So what we've done is, this essentially is very
- 14 Darwinian in a sense, you have to get very creative:
- 15 How strong a patent do you think you're going to
- develop, and then the question is: How long are you
- willing to develop it for before it's actually going to
- 18 be licensed either to a new company for which you've gone

- 1 want to go for composition of matter. If that's not
- 2 possible you want to go for the next best thing, but

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1 hour with an agreement, but then was willing to pay us
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- 2 money but was going to put our technology on the shelf,
- 3 and then eventually all of them took the opportunity.
- 4 They met with us earlier to begin working on breaking
- 5 the formula as well, so unfortunately I don't have good
- 6 advice for my friend here.
- 7 It's a tough world to go to these companies and
- 8 try to work with them. You're actually better off to go
- 9 with companies that probably aren't competing in the
- area you're trying to sell your patent to because they
- all try to get around your patents. They all try to do
- 12 it without you.
- MS. MICHEL: Okay. All right.
- 14 MR. IRIZARRY: Do you find that in the last few
- 15 years there have been more awareness and probably new
- 16 business models dealing with marketing of patents,
- 17 whether aggregators or non-practicing entities -- how do
- 18 you see the role of those new business models affecting
- 19 or improving or enhancing or detracting from the start
- 20 ups and small businesses in maximizing the value of your
- 21 patents?
- 22 Ron? Go ahead. Tom?
- MR. WOOLSTON: Well, I'm looking at university
- technology now to license and try to build and
- capitalize the business, and if it's my own money and

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1 time, I'm a little more free with it, but when I take
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- other people's money as an investor, I feel pretty
- 3 committed to telling them what the company is going to
- 4 do and why we're going to do it.
- 5 And I feel if you're building a business around
- 6 a patented technology now and you're out approaching
- 7 people to capitalize it, you're almost false advertising
- 8 because the fact is under 35 U.S.C. 134, in the '99
- 9 amendments, you have less rights to defend an issued
- 10 patent then you do a pending patent.
- 11 Under the Zurich decision, which gave deference
- 12 to the fact finder of the PTO, dovetailed with the
- amendments in '99 to 35 U.S.C. 134, Section 141 and Section
- 14 145. In a patent reexamination, the office gives
- 15 deference to their fact findings, and there can be
- 16 legitimate disagreements on the fact findings, and that
- deference is enough to tip it the office's way to
- 18 invalidate the patent. You can only go to the
- 19 Court of Appeals, and they get deference in their fact
- 20 finding. So, it has tipped validity toward the Patent
- 21 Office that an inventor cannot fight for their
- 22 invention. I have a problem with that because if
- 23 you're out raising money on the strength of a patent
- 24 saying, "Well, we can commercialize this and there's an
- 25 expectation that if we get it to market, we can have an

- 1 exclusive right or some market exclusivity," that is part
- of the recipe for making the commitment of time, money
- 3 and resources into it this. But the reality is if
- 4 somebody else can beat you to market, get you in a
- 5 reexamination, you have very limited rights to defend
- 6 your patent at PTO.
- 7 They get deference. The only reason you're in
- 8 reexamination is because a patent has become
- 9 commercially important. People aren't doing it for the
- 10 heck of it, so you have a commercially important
- invention. You're in the marketplace. Nine times out
- of ten you'll have very sophisticated opposing parties,
- and they can make very good fact-based arguments to the
- 14 office.
- 15 The office can just adopt them. The office has
- 16 deference to those decisions and you have no -- as a
- 17 patent owner, you have no ability to rebut that with
- 18 trial evidence or anything else. You're up on the
- 19 administrative record, and chances are very likely that
- 20 the CAFC is going to affirm due to the deference that
- 21 the office has given on its fact finding.

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1 slide here, the Constitutionally anomaly, the black hole
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- 2 because ex parte, the way we saw ex parte, ex parte
- 3 swallows everything. It swallows inter partes. You can
- 4 go through an inter partes and go back through an ex
- 5 parte. You can go through first window and go into an
- 6 ex parte. You can go through the Supreme Court and go
- 7 into an ex parte.
- 8 MS. MICHEL: You mean that a challenger to a
- 9 patent can, for instance, go through inter partes?
- 10 THE WITNESS: There's no estoppel in ex parte so
- 11 you can go all the way through the inter partes, lose
- and then say, well, let's take all the arguments again,
- 13 throw all the arguments again into ex parte and let the
- 14 Patent Office do it all over again.
- 15 MS. MICHEL: So the challenger to the patent can
- 16 lose in the inter partes and then put the patent into
- 17 reexamination again through an ex parte proceeding?
- 18 MR. WOOLSTON: Absolutely.
- MS. MICHEL: That's the concern?
- DR. KATZNELSON: Anonymously.
- 21 MR. WOOLSTON: There's no collateral estoppel.
- 22 There's no res judicata. There's no finality. It just
- 23 goes forever and forever, and there's no time lines on
- the office to do anything so you see them taking six,
- 25 seven years.

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I don't know how you go out and raise money with
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- 2 a straight face on a technology that is covered by a
- 3 U.S. patent when we put the time, money and energy into
- 4 the commercializing this, that a faster better
- 5 capitalized competitor isn't going to move into your
- 6 market and throw you into re-exam, and then your whole
- 7 premise for raising money that we had a U.S. patent that
- 8 would give us some protection is -- I feel like I'm out
- 9 false advertising what a U.S. patent is to people if
- 10 you're out trying to capitalize a company.
- 11 MS. MICHEL: And when you are out trying to
- capitalize and you have your patent in re-exam, how does
- that affect your ability to raise capital?
- 14 DR. SODERSTROM: It shuts it down. There is no
- 15 discussion at that point.
- MS. MICHEL: Ron?
- DR. KATZNELSON: I thought Armando was asking a
- 18 question related to the packaging of patents and the
- 19 market, almost the secondary market for patents and how
- 20 important that is, and I want to address that. I think
- 21 it's a very important function to be able to aggregate
- 22 patents and to get them.
- 23 Part of the considerations investors make when
- they make an investment in a company like mine, okay,
- let's take a look at your patents, but you know a lot of

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1 people fail and what are we going to be left with? What
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- 2 are the assets going to be looking like at the time?
- 3 We're going to put all this money in here, there's risk.
- 4 They then look at what's their ability to
- 5 actually monetize some of these patents so the
- 6 valuation of a company often is done in two different
- 7 tracks: One is your business model, what you're
- 8 pushing, what you're saying you're going to do. The
- 9 other is: Who is it good for? Who else might be
- interested in this patent should he fail? How much
- 11 could we get out of this?
- So the value of the assets, not through your own
- 13 activity, that means secondary market valuation is an
- 14 incredibly important gate for investors to make an
- 15 investment in your company. So to me, if that secondary
- 16 market disappears or is made essentially ineffective, it
- shuts down potential investors and primary effort
- 18 patentee.
- 19 And even in an operating company, in my case the
- 20 banks would look at -- we would like to have secured
- 21 assets. I mean, sometimes even a loan's security
- 22 by the assets are going to be chilled by the fact
- 23 that these assets, in fact, will be known not to be worth
- 24 a lot.
- 25 So, if you actually discourage the property

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1 transfer and if you discourage secondary market in
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- 2 patents, you actually hurt primary markets of patents,
- 3 and to me those are inseparable. I guess my point was
- 4 there wouldn't be aggregators but for the fact the
- 5 rights are weak right now.
- 6 MR. IRIZARRY: Joe?
- 7 MR. KIANI: I'm sorry.
- 8 DR. SODERSTROM: I will agree with Ron that in
- 9 certain areas that's true. In life sciences, the
- 10 decisions tend to be binary. It either works or it
- 11 doesn't, and there is no secondary market because the
- 12 technology either has been proven to work in human
- 13 clinical trials or whatever the FDA requires or it
- 14 doesn't.
- 15 So I would not make a broad generalization that
- 16 secondary markets are great everywhere. The reason
- 17 universities have a little bit of a problem with this is
- 18 I think that we have to ask ourselves why are we
- 19 patenting in the first place, and part of the reason
- 20 that we're patenting is to try to draw forth the
- 21 investment capital to take the technology into the
- 22 marketplace.
- 23 If we're solely doing it so it can be rolled up
- 24 by some non-practicing patent aggregator, the question
- 25 we're really asking is: Well, why are you doing it?

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1 Well, the only reason you could be doing it, it would
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- 2 seem to me is that you think you're going to generate
- 3 revenue, and at that point aren't we just creating some
- 4 sort of innovation tax?
- 5 And I don't really think that universities
- 6 should be in that business so that's why we've taken a
- 7 fairly strong stand against doing that. I'm not saying
- 8 that there shouldn't be. I'm just saying that
- 9 universities shouldn't participate.
- 10 MR. KIANI: The point I wanted to make is just
- because you have patents doesn't mean you're going to
- 12 succeed. You have to succeed commercially
- and patents are helpful for an investor to
- 14 decide to invest because they know you can use it as a
- 15 great equalizer. The patents helped us get to a
- 16 commercialization mode where we could eventually start
- 17 competing properly.
- 18 I can tell you I know of numerous investors
- 19 after raising \$90 million, I'm sorry, Ron, but they
- 20 don't look at the secondary value of patents. I've seen
- 21 companies invest \$50 million into them, \$100
- 22 million into them, and when it doesn't work, the
- 23 patents are worthless, and they're not looking at that.
- 24 They pick them up for 50 grand or a hundred
- grand. What's wrong with the aggregators of patents?

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1 They take a failed company's patents, and then they
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- 2 start holding up companies that are still trying to make
- 3 it with the threat of injunction. Fortunately, with
- 4 eBay I'm sorry, but fortunately with eBay that
- 5 threat of injunction is gone and you can't be held up as
- 6 badly as before but then there could be damages.
- 7 So I'm sorry, I disagree that there's some
- 8 secondary value for a patent that investors look at.
- 9 They don't.
- 10 MS. MICHEL: We have been talking about strong
- 11 patents and weak patents. I would like to understand
- 12 better what you mean by that in the sense of the desire
- 13 to aggregate weak patents. Are those patents weak
- 14 because they are of questionable validity? Are they
- 15 weak because the ability to get an injunction is
- lessened, and what is driving that kind of aggregation?
- 17 Tom, you've used that term and talked about aggregators.
- 18 I just want to impact that a little bit.
- 19 MR. WOOLSTON: Well, look, small companies don't
- 20 stifle innovation, right. Big companies stifle
- innovation because they've got market share and market
- 22 power and they don't need to innovate to maintain their
- 23 profit margins so it's always the challenger to the
- 24 market leader that's going to be the innovator because
- it has to be better, faster and cheaper than an existing

- 1 property or why bother doing it, patent or no patent,
- 2 right?
- I had never filed for a patent or been involved
- 4 in any patent in any way that I didn't look to build,
- 5 and you've got to see some space in the marketplace to
- 6 build, and if there isn't space in the marketplace, then
- 7 you're not going to mak 9't lusiness decisionso

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1 end goal is to make money, maybe you can't. But, if the
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- 2 end goal of patents was to help foster innovation,
- 3 foster economic growth, then I think that type of a
- 4 business model is actually hurting the patent system and
- 5 innovation and what it was meant to do.
- 6 MS. MICHEL: We have a wealth of talent and
- 7 knowledge here and could continue this conversation for
- 8 a very long time. We're about out of time if any of the
- 9 panelists have anything to say.
- 10 MR. WOOLSTON: Maybe you can fix it with a tax
- 11 code. Maybe they treat owners with the different
- 12 provisions in the tax code or something.
- DR. SODERSTROM: Yeah, I hate to mix motives. I
- 14 mean, I don't want to see the patent -- I'm a strong
- 15 believer in the law of unintended consequences, and I
- think that messing around in the patent system which has
- 17 withstood a lot of -- has proven itself over the years,
- 18 I think we have to be extraordinarily cautious how we
- 19 change this, and I would hate to see us jump into it
- 20 simply because people don't like business models.
- MR. WOOLSTON: But it's already been changed. I
- 22 mean, where's our industrial base in this country?
- DR. SODERSTROM: It's gone. It's being changed
- in lots of different ways both by the judicial system
- 25 and the Congressional but I still urge caution no matter

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1
      what.
              MS. MICHEL: With that, we will close this
 2
 3
      panel, and the FTC will continue to take comments and
      accept comments through May 15th, so if there's a point
 4
      that we didn't get to, we would love to hear from you in
 5
 6
      writing.
 7
              Also staff here is always willing to talk if you
      have thoughts. Thanks very much and we'll come back
 8
 9
      in 15 minutes with a panel on the IT sector.
              (Whereupon, there was a brief recess.)
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1 PANEL 2: THE IT AND ELECTRONICS INDUSTRIES.
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- 2 MODERATORS:
- 3 SUZANNE MICHEL, FTC
- 4 BILL ADKINSON, FTC
- 5 PANELISTS:
- 6 SARAH T. HARRIS, Vice President and Chief Counsel
- 7 Intellectual Property, AOL LLC
- 8 NOREEN KRALL, Vice President & Chief IP Counsel, Intellectual
- 9 Property Law, Sun Microsystems, Inc.
- 10 ALEXANDER H. ROGERS, Senior Vice President and Legal
- 11 Counsel, Qualcomm, Inc.
- MATTHEW M. SARBORARIA, Senior Patent Counsel, Oracle Corp.
- 13 RUSS SLIFER, Chief Patent Counsel, Micron Technology, Inc.
- 14 JOHN THORNE, Senior Vice President and Deputy General
- 15 Counsel, Verizon Communications, Inc.

16

17

- 18 MR. ADKINSON: We're going to start up again. I
- 19 want to thank you all for joining our second panel of
- the day. We're going to hear from representatives of
- 21 the IT and electronics industries who are going to offer
- 22 a different set of perspectives on the operation of IP
- 23 and technology markets and whether those markets operate
- 24 efficiently or transparently and also what can be done
- 25 to improve them.

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              In particular they'll address licensing
     practices and the use of patents and uncertainty in the
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 3
     patent system's notice function.
 4
              We have a terrific panel of industry leaders
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      whose distinguished bios are on the web site.
                                                     I'11
      introduce them very briefly. I guess first I'll briefly
 6
 7
      introduce myself. I'm Bill Adkinson. I'm an attorney
      in the General Counsel's Office and working with Suzanne
 8
 9
      on this project.
              Our panelists are Sarah Harris, who is Vice
10
      President and Chief Counsel for Intellectual Property
11
12
      for AOL. She is responsible for establishing AOL's
      intellectual property policies and strategies and
13
14
     managing AOL's intellectual property issues including
15
      those related to patent litigation, patent prosecution
      and copyrights, trademarks and domain names.
16
17
              Prior to joining AOL Ms. Harris was the Chief
      Intellectual Property Counsel at Cooper Industries and
18
19
      she also held several different IP related roles at
20
      Hewlett-Packard and Compaq.
21
              Noreen Krall is Vice President and the Chief IP
22
      Counsel for Intellectual Property Law for Sun Microsystems.
      Ms. Krall directs Sun's intellectual property law
23
24
      function and provides legal counsel regarding all facets
25
      of Sun's intellectual property assets, and she leads
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1 Sun's management of intellectual property law policy
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- 2 issues. In particular, she is responsible for the
- 3 management of Sun's patent and trademark portfolios and
- 4 for managing all commercial and intellectual property
- 5 litigation for Sun.
- Then we have Alex Rogers who is the Senior Vice
- 7 President and Legal Counsel for Qualcomm. He is the
- 8 head of Qualcomm's litigation group and has
- 9 managed intellectual property and commercial litigation
- 10 matters for the company since joining in January 2001.
- 11 Previously he was a partner with Gray, Cary, Ware &
- 12 Friedenrich, now DLA Piper.
- 13 Then we also have Matt Sarboraria who is Senior
- 14 Patent Counsel at Oracle. His responsibilities cover
- 15 all areas of patent practice including patent
- litigation, licensing, procurement and patent related
- due diligence in mergers and acquisitions. His
- 18 litigation experience includes cases involving database
- 19 and application software, semiconductors, computer
- 20 networking and telecommunications equipment.
- 21 We also have Russ Slifer who is the Chief Patent
- 22 Counsel for Micron Technology which is based in Boise,
- 23 Idaho. His responsibilities include managing the
- 24 company's patent portfolio and advising company
- 25 management regarding various intellectual property and

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1 related patent issues. Prior to joining Micron, Mr.
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- 2 Slifer was in private practice in Minnesota specializing
- 3 in IP matters.
- 4 Finally, we have John Thorne, who is Senior
- 5 Vice President and Deputy General Counsel at Verizon
- 6 Communications where he works on antitrust, intellectual
- 7 property, privacy, merger review and strategic
- 8 initiatives. He's also an adjunct faculty member at
- 9 Columbia Law School and the Georgetown University Law
- 10 Center.
- 11 Competition lawyers in the room will know that
- 12 he's won three landmark antitrust cases in the Supreme
- 13 Court over the last ten years: Bell Atlantic against
- 14 Twombly, Verizon against Trinko, and NYNEX against
- 15 Discon.
- 16 His intellectual property group was named one of
- 17 the five best intellectual property practices in the
- 18 world by Global Council Awards 2008. Mr. Thorne is
- 19 co-author of principle academic treatises on
- telecommunications law and has published and spoken
- 21 widely. I'm also reliably informed that he is the
- 22 named inventor on one U.S. patent for disappearing
- e-mail.
- MS. MICHEL: Thanks, Bill. I would like to
- 25 start out with just a broad question to allow each of

- our panelists to introduce their companies and the role
- 2 that patents play in their companies. Sarah?
- 3 MS. HARRIS: Thank you for having me.
- 4 I'm very honored to be a member of this panel with my
- 5 distinguished colleagues.

- 1 Microsystems is an industry leading global networking
- 2 company that develops, manufactures and commercializes
- 3 computer hardware, microprocessor technology, software
- 4 and related services. Sun has over \$13 billion in annual
- 5 revenue across virtually every computer market
- 6 including telecommunications, financial services,
- 7 manufacturing, retail, government, healthcare and even
- 8 consumer electronics.
- 9 Sun reinvests between 15 and 20 percent of its
- 10 annual revenues back into R&D annually. This investment hputehpmarkemarket

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1 software used for storing data to middleware, software
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- 2 which provides the infrastructure for retrieving data
- 3 from a database and interacting with application
- 4 programs to the application programs that businesses use
- 5 to run their day-to-day operations, things like human
- 6 resources, payroll, accounting, supply chain management,
- 7 customer relationship management and on and on.
- 8 We employ over 80,000 people worldwide. More
- 9 than 20,000 of those employees are in research and
- 10 development. We invest over \$2 billion annually in
- 11 research and development, and like many companies in the
- technology industry, a substantial portion of the value
- of our company lies in the intellectual property that we
- 14 generate, and so we rely on a mix of protections for our
- investment in that intellectual property.
- 16 Patents are certainly a part of that mix. We
- 17 also rely heavily on trade secret protection as a
- 18 software company for our proprietary source code and
- 19 copyright protection as well. We file over 300 patent
- 20 applications a year, and we have a portfolio of over
- 21 2,000 active patents worldwide, so we have a very strong
- 22 interest as a user of the patent system in a well
- 23 functioning, well balanced patent system.
- In recent years, we have also seen a dramatic
- 25 uptick in patent litigation. The first 23 years of our

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1 company from 1977, founding of the company in 1977 to
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- the year 2000, we hadn't been involved in a single
- 3 patent litigation.
- 4 Since then we've had over 20, and virtually all
- of those cases have been brought by non-practicing
- 6 entities, so we do see a need for reform of the patent
- 7 law to address some of those problems.
- 8 MS. MICHEL: Alex?
- 9 MR. ROGERS: Thank you very much for having me.
- 10 I appreciate it, Suzanne and Bill. Thank you for that
- 11 introduction.
- 12 Qualcomm is a semiconductor and software company,
- in part, and a licensing company in part, and we have
- other businesses. We are actually the largest
- 15 semiconductor manufacturer for wireless in the world.
- 16 We are the largest wireless semiconductor company in the
- world, but we actually consider ourselves to be a
- 18 technology transfer company.
- 19 Qualcomm was founded by Irwin Jacobs in 1985,
- and his idea for the company was to look for new ideas
- 21 to develop and essentially get out into the market, and
- 22 it was funded -- Qualcomm originally was funded
- 23 through patent licensing. The early Qualcomm patents,
- last I checked, have been noted as among the top
- ten most cited patents in the world, and so as a result

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of our start as a business trying to get new technology
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- 2 into the market, the licensing part of our business has
- 3 been ongoing and ultimately very successful.
- We have over 160 licensees. We have
- 5 approximately 7,000 issued patents, approximately 50,000
- 6 issued patents and pending applications around the
- 7 world. We spend over 20 percent of our budget on R&D.
- 8 We've done that for years. That's an enormous amount of
- 9 R&D spending. It's well over half of our licensing
- 10 revenue.
- 11 As a product company and as a licensing company,
- 12 we see both sides of the patent reform issue that's
- been going on, certainly both sides of the issue that
- 14 have been presented in these hearings.
- 15 We see the patent system as not necessarily
- being perfect, but we don't see it in crisis, and we
- 17 like some of the other commentators here are very
- 18 concerned about unintended consequences, and we would
- 19 like to make sure that different views be considered and
- any form of reform be taken very slowly.
- 21 MS. MICHEL: Okay. Thank you. Russ?
- 22 MR. SLIFER: Thank you to the Commission for
- 23 inviting me to participate today. Micron Technology is
- 24 a semiconductor manufacturing company. In the last 30
- years since the start of the company, we've gone from a

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1 have seen a significant increase in patent license
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- 2 requests and patent litigation, particularly by non-
- 3 practicing entities, that drain our economic and
- 4 executive resources that could be used better for
- 5 Micron's operations and R&D.
- 6 Thank you.
- 7 MS. MICHEL: Okay. John?
- 8 MR. THORNE: I would like to start, and I don't
- 9 want to go on too long, but I could, appreciating the
- 10 FTC's holding these hearings. It is a good time to have
- 11 somebody with a consumer's point of view looking at the
- 12 changes that have occurred since your 2003 report.
- We have seen an explosion in the number of
- 14 patents issued, an explosion in the number of patents
- 15 being enforced, an explosion in the number of patents
- 16 being sold on the secondary markets. I anticipate with
- 17 the current financial crisis that companies, big
- 18 companies, the Microns, the Suns, maybe not you
- 19 particularly, are going to be selling even more of their
- 20 patents because they can and so it's a way to raise
- 21 money.
- 22 As was mentioned in the first panel, Congress is
- 23 looking into some serious reforms. I think the more
- important reforms are likely to come through the courts,
- and you can see that, for example, as a by-product of

- 1 the work the FTC did in its 2003 report. I'll just give
- 2 a couple examples.
- When the Federal Trade Commission urged a more
- 4 thoughtful application of the test for obviousness, that

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1 in the country.
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- 2 For enterprise services we bought MCI, a global
- 3 enterprise provider. Consumer Reports doesn't rate them
- 4 so you have to look at some of the enterprise
- 5 publications to see that we are a very good enterprise
- 6 provider. Telephony Magazine, for example, gave us their
- 7 2008 innovation award for enterprise services.
- 8 The reason we're good at what we do is because
- 9 we spent a lot of time building systems, and I actually
- 10 looked at this again just to see how we fared. In the
- 11 past five years if you add up the capital invested by
- 12 large firms, Verizon spent more cap X than any other
- 13 firm over the five year period. There were a couple
- 14 years we didn't win for that year, but over the
- 15 five-year period we were at about \$80 billion of cap X.
- 16 GE was second at 76, ExxonMobil at a little less than
- 17 76, Wal-Mart at 69, again IBM at about 25 billion
- 18 investing.
- 19 But we're spending an awful lot of money on
- 20 building high quality fiber and wireless networks, so
- 21 patents are important for us for three reasons. One is
- that we have about 5,000 patent assets. That's about
- 23 two-thirds issued and one-third pending patent
- 24 applications.
- Our rate of patenting, I was happy to hear on

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1 the first panel, we're about three Yales a year, about
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- three times the rate of Yale's patenting. We're
- 3 beginning to enforce more than we did in the past the
- 4 patents that we have.
- 5 Second, we're a defendant in an increasing
- 6 number of troll patent cases. We have something like
- 7 two dozen cases pending against us now, and I think all
- 8 but one are filed by companies that don't practice their
- 9 patents. They're just in the business of acquiring
- 10 patents to bring litigation.
- 11 The third way that patents are important to us I
- found out recently that Verizon, being it's a large
- company, we have a very large number of employees, and
- they have large families, and we have a lot of retirees,
- and we're buying all their medicines so in the category
- 16 of how much prescription medicine Verizon pays for, it's
- about a billion dollars a year, so the strength of the
- 18 pharma patents is a thing of interest for us also so
- 19 I'll stop there.
- Thanks again though for hosting this.
- MS. MICHEL: A lot of important and different
- 22 perspectives there. Can any of the panelists comment on
- 23 the different ways that you use patents within your
- 24 company, to what extent you use the patent to prevent
- copying of an innovation within the company versus

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1 accumulating patents for defensive purposes and are
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- 2 there any other mechanisms or any other uses of patents,
- 3 how those two different uses affect your patent
- 4 strategies?
- 5 Russ, I know that defensive patenting and
- 6 portfolio cross-licensing is an important mechanism in
- 7 the semiconductor industry. Could you describe that for
- 8 us?
- 9 MR. SLIFER: I'll try to. A little history
- 10 would probably help in that from Micron's perspective as
- 11 a start-up company in basically the late '70s, early
- 12 '80s, we were somewhat late to the game, if you will,
- in that technology. There was already an awful lot
- 14 of innovation from Texas Instruments, IBM and others in
- 15 a large patent portfolio, so we found ourselves in a
- 16 position where to be able to participate in the
- industry, we had to pay license fees to those companies,
- 18 and we did so.
- 19 As we were paying those fees and innovating our
- 20 own technology, we sought our own patent portfolio as
- 21 the technology advanced. We acquired a fairly
- 22 substantial patent portfolio based on strong innovation,
- 23 which allowed us to enter into cross-licensing agreements
- 24 with other manufacturers.
- 25 MS. MICHEL: When you say acquired, did you mean

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1 purchased or built up internally?
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- 2 MR. SLIFER: No, we internally created.
- 3 MS. MICHEL: Okay.
- 4 MR. SLIFER: We did not purchase any assets. We
- 5 built our own internal patent portfolio as a mechanism
- 6 to allow us to enter into negotiations with some
- 7 kind of bargaining power.
- 8 As the years went on and the portfolios grew,
- 9 our portfolio grew, we were able to enter into cross-
- 10 license agreements that were much more favorable to
- allow us to basically retain our earnings ourselves.
- 12 That was the start of our patent portfolio.
- 13 There's been a lot of discussion and in the earlier
- 14 report about patent flooding and creating large
- 15 portfolios around some initial innovation. That
- 16 continues to drive our reasons for filing a large number
- of patents.
- 18 With the creation of our new products and life
- 19 cycle, we need to make sure that others aren't going to
- 20 necessarily patent around where our next advance is
- going to be, so we try to continue and keep the
- 22 portfolio large. Does that help?
- MS. MICHEL: Very much, thank you.
- Have other companies had similar experiences
- 25 that you could speak to, the need to cross-license?

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      Alex?
 2
                           So should we do the card routine?
              MR. ROGERS:
 3
              MS. MICHEL:
                           Yes, please. Please turn up your
 4
      table tent, and we'll call on you, and we are creating a
 5
      transcript, by the way, so if you could speak into the
 6
      microphone that will help our reporter quite a bit.
 7
      Thank you.
                           So let me just address both the
 8
              MR. ROGERS:
 9
      inbound and the outbound licensing at Qualcomm and just
      a very brief snippet on history. Again Qualcomm when it
10
      started with about a half dozen people looking to simply
11
12
      do some innovation, they hit on an idea that was
      essentially rejected as a commercially feasible idea.
13
14
      So because they were left with an open field to do
      something that nobody else wanted to do or thought was
15
     possible and because they made it work, these engineers
16
17
      were able to establish essentially a pioneering patent
     portfolio.
18
19
              Licensing was absolutely critical. Outbound
20
      licensing was critical in order to make the enterprise
      commercially successful. It would have simply failed
21
22
      because it was in an industry that had extremely large,
      established vertically integrated companies from chip-
23
24
      set to handset to other forms of equipment, and so we
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had to outbound license. We had to have these other

25

- open source license, that created a community of patent
- 2 rights associated with it, so the greater the access to
- 3 our portfolio is actually by adopting that technology
- 4 and following the rules of the open source license under
- 5 which it was released under.
- 6 We've also used our portfolio to maintain our
- 7 standardization of our platforms. If you look at the
- 8 Java platform for the last decade -- through technology
- 9 licensing and distribution agreements, maintaining
- 10 compatibility with that platform, you get access to all
- of the background intellectual property that Sun has

- 1 infringe our patents. They added no value beyond the
- 2 infringement. We won an injunction that was upheld in
- 3 the Federal Circuit. We ended up -- because there were
- 4 unique circumstances, it was a relatively weak player,
- 5 we ended up trading the injunction for cash.
- 6 We have since filed a lawsuit against Cox
- 7 Communications which is now pending in the Federal
- 8 Circuit, and depending on how you count them there are
- 9 three other lawsuits between Verizon and Charter
- 10 Communications, and in both the Cox and Charter cases,
- 11 we're seeking injunction to stop the copying.
- MS. MICHEL: John mentioned an explosion in

- 1 continues to drive businesses to look for new ways to
- 2 raise revenue or even as businesses go bankrupt and
- 3 their assets are divested, that patent and IP portfolios
- 4 will continue to become available.
- 5 MS. MICHEL: You mentioned portfolios. Are
- 6 these patents being sold as portfolios or sold
- 7 individually?
- 8 MR. SLIFER: Well, I usually don't get
- 9 notification of an individual patent. These tend to be
- 10 grouped. Now, whether they're a company's entire portfolio
- 11 or a subset, it varies.
- MS. MICHEL: Is it necessary -- are they being
- offered for you to buy the whole portfolio at once or is
- 14 it possible to buy individual patents within the group that
- 15 you're seeing?
- MR. SLIFER: I probably can't answer that
- 17 because I've never responded back to -- we don't --
- 18 unfortunately right now we don't have any cash to take

- 1 give you the numbers. In 2007 we saw almost exactly
- 2 10,000 patents for sale, sometimes single patents,
- 3 sometimes collections in a small portfolio. 10,000
- 4 patents for sale that were in areas that were

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1 I think that's going to increase as companies
```

- 2 now frantically sell everything that they can to raise
- 3 cash.
- 4 MS. MICHEL: How is that different than your
- 5 experiences five years ago in terms of both the number
- of patents for sale and the use of brokers?
- 7 MR. THORNE: I wasn't involved then.
- 8 MS. MICHEL: Or if anyone wants to comment.
- 9 MR. THORNE: I don't think it was anything like
- 10 that in 2003.
- MS. MICHEL: Noreen?
- 12 MS. KRALL: Yes. So there are a tremendous
- amount of assets for sale on the secondary market.
- 14 We've been involved in watching this over the last four
- 15 years. I would say our resources and time spent
- 16 looking at these portfolios that are coming across has
- 17 probably doubled. It's taken twice as long and twice as
- 18 many patents are coming across.
- 19 It's a regular part of the patent portfolio
- 20 manager function in my organization to actually look at
- 21 those portfolios as they come across. Interestingly
- 22 enough, some are truly just pure patent sales in
- 23 the technology industry from folks that have large
- 24 portfolios.
- 25 Some are small inventors. Some are individual

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1 patents. Some are large portfolios. Some are truly
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- 2 couched as an offer to sale, and others are vague barely
- disguised assertions, if you don't buy these patents
- 4 somebody else will who will sue you or they'll shop the
- 5 patents to some other companies with claim charts
- 6 against your products.
- 7 And I'll get the same set of patents to look at
- 8 with claim charts against my competitor's products, so
- 9 it seems to be a new approach to patent assertions that
- don't necessarily or attempt to get below the requisite
- 11 threshold for you to be able to file a DJ against
- 12 potentially the patent seller, so it's certainly a
- 13 challenge.
- 14 Sun has been involved since the earliest
- 15 inception of Allied Security Trust, which is a
- 16 consortium of a couple of companies that have gotten
- together to try and use their collective resources to
- 18 purchase patents and mitigate the risk of those patents
- 19 falling into the hands of entities that would be more
- let's just say litigious with those patents, and that's
- 21 been successful for us as a mechanism for addressing
- this volume that we're seeing in the market.
- 23 MS. MICHEL: Matt and anyone else who would like
- 24 to comment on how this has changed over the past few
- 25 years? Noreen, do you have a sense of how this has

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1 grown? Is it a problem with the secondary markets?
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- 2 MS. KRALL: I don't know the exact numbers but
- 3 the volume is tremendous. It really is.
- 4 MS. MICHEL: Okay. Matt?
- 5 MR. SARBORARIA: I don't have numbers either,
- 6 but in the software space, we've seen a tremendous
- 7 increase in offers to sell patents. In contrast to
- 8 Russ's comments, most of the offers we see are for
- 9 individual patents as opposed to large portfolios.
- 10 We've seen this increase sort of track the development
- 11 or the increase in the number of different entities in
- 12 the market that were addressed at some length in the
- Commission's December hearings, the increase in the
- 14 brokers, agents, auctions, what I think of as the push
- 15 end of the market, entities or individuals coming to us
- 16 with patents that they believe would be of interest to
- 17 us.
- 18 And in some ways this has been a positive
- 19 development in the sense that some of these
- 20 organizations do some fairly good diligence at the front
- 21 end and can bring some high quality assets to the table.
- 22 I remember when I started at Oracle some years ago, we
- 23 used to receive a lot of letters from individual
- inventors, patent owners, some of them offering patents
- 25 that had no relationship whatsoever to our technology or

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our business, offering hardware patents when we're
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- 2 purely a software company for example.
- 3 We've seen that. We've seen a decrease in those
- 4 types of offers and an increase in what I would
- 5 characterize as more sophisticated offers.
- 6 MS. MICHEL: Alex?
- 7 MR. ROGERS: So our experience has been similar.
- 8 We've seen the market for patents being sold increase.
- 9 Certainly we've had more visibility into it over the
- 10 last few years, and we've had -- like Noreen -- we've had
- 11 to organize internally in order to be able to handle
- 12 getting some sort of structure to be able to understand
- 13 how the market is working and what is out there
- 14 essentially and being able to evaluate what's being
- 15 presented to us.
- I don't have the numbers that John has. I can
- say anecdotally it is interesting that a number of
- 18 portfolios that are being presented to us recently
- 19 include patents that were sold previously, so we're
- 20 looking at patents that may have been bought and sold
- 21 back in the late '90s being presented yet again.
- 22 And so I really don't have the numbers to tell
- 23 you how much it has increased. There certainly wasn't a
- 24 market previously because we were seeing patents that
- 25 have already been sold.

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1
              MS. MICHEL:
                           Okay.
                                  Sarah?
 2
                           I'll echo the same comments. We've
              MS. HARRIS:
 3
      seen a really significant increase in the past 12 months of
 4
     being approached by brokers, and also like Russ we're
 5
     not in the business of buying patents. We do look at
      everything, but it's actually becoming somewhat
 6
 7
      burdensome now because we see so many that we also talk
      to the brokers, and what kind of anecdotal intelligence
 8
 9
      that we're receiving now is that the actual purchasing
10
      market is really drying up.
              We've heard from two different brokers that a
11
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- portfolio today would probably draw the sales price
  about half of what it would have been last year, and
  people just aren't biting on them. The patent
  aggregators aren't buying as many. They're being much
  more selective, so it's kind of a capitalistic market in
  the patent space.
- MS. MICHEL: John?
- MR. THORNE: I wanted to follow-up on something
  that Alex said because I have a Qualcomm example. It's
  very hard with the volume of patents to make a realistic
  decision, Is this something you need or not.
- MS. MICHEL: Yes.
- MR. THORNE: Because even a quick analysis on a single patent, does a complex business potentially

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1 infringe this and is this business -- is the patent
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- 2 valid, was it properly enforced, will run into at least
- 3 the small number of thousands of dollars per patent. If
- 4 you're looking at 10,000 over a year, it would be an
- 5 astronomical thing to actually do a good job of
- 6 evaluating things.
- 7 Here is my Qualcomm story because we were
- 8 involved as a worried bystander. There was a patent
- 9 portfolio for sale four or five or six years ago that
- 10 was presented to Qualcomm, I understand. It was a
- 11 small number, 100, 150 patents for sale. Qualcomm gave
- 12 it a pass. Broadcom bought it, went to the ITC, which
- hasn't learned the wisdom of the FTC's recommendations
- 14 from 2003. They disrespect eBay. Went to the ITC and
- 15 Broadcom said one of the patents they had purchased
- 16 was -- actually several of the patents were infringed by
- 17 Qualcomm's chips.
- 18 The ITC should block products coming into
- 19 America that included those chips, and this would have
- 20 been the now current generation of wireless phones.
- 21 Verizon, AT&T, all the other suppliers of wireless
- 22 service would have had no devices to give their
- 23 customers had this succeeded but it was an instance
- 24 where a very intelligent IP group that Alex runs was
- 25 given the chance to buy the patents and made a

- 1 reasonable decision, no, these probably aren't important.
- 2 The ITC later found otherwise, and was ready to
- 3 issue the strictest of remedies which would have
- 4 devastated an awful lot of commerce.
- 5 MS. MICHEL: Alex?
- 6 MR. ROGERS: John's correct, that portfolio
- 7 actually was presented to us, and we did pass on it, and
- 8 we did think that the patents weren't strong enough to
- 9 purchase or be interested in. We obviously have
- views on the merits of that still, but that's correct,
- and, in part, because of that lesson, we've actually
- 12 become determined to be more educated on this market
- that's out there, and we are becoming more educated on
- 14 this market that's out there.
- 15 MS. MICHEL: What do you need to do to become
- 16 more educated? What .0000 cm0Es00 0.00000 1.00000 0.0000 0.0000

- 1 be asserted against us. The analysis that's necessary
- 2 when you look at one patent is -- anybody can do it. If
- 3 somebody gave me 12 patents, we have a very talented
- 4 group of people that would look at it and could
- 5 determine if we do or do not worry about them -- there's no
- 6 risk of infringement or the prior art search shows that
- 7 the patents should be found invalid given the way the
- 8 law works on that. But the expense of doing that is
- 9 pretty large.
- 10 I'm told by my outside suppliers of this that no
- one will do a prior art search on a patent for less than
- 12 \$1000. A worldwide bare bones patent
- search is \$6,000 7,000. A more realistic extensive
- 14 search, which looks not only at other patents but other
- publications, is in the neighborhood of \$15,000.
- You do a lot more than that in real litigation,
- 17 but if you tried to do a serious look at the validity of
- 18 every patent that came in and you were looking at 10 to
- 19 20,000 patents potentially relevant to your business a
- 20 year -- that's more than my budget.

- 1 technology areas you have here, the number of
- 2 technologies and patents that would affect our products
- 3 are in the thousands. I mean, everything from material
- 4 science to chemistry, electrical engineering, process
- 5 operations, all of those, so we have a large patent
- 6 portfolio to provide us the defensive positions we need.
- 7 What we would be looking for when we look at the
- 8 portfolios are to see if there are assets in there that
- 9 would be critical to what we're doing and what might
- 10 fall into the wrong hands as you say to get it off the
- 11 street. To be honest, I have not seen that in the
- 12 portfolios being offered to me, that we've felt that
- anything has risen to that level, so we haven't engaged
- in that discussion with the brokers that you're
- 15 inquiring about earlier, can you split it up or buy one
- or two patents out of it.
- 17 MS. MICHEL: I see. Noreen?
- 18 MS. KRALL: So, you asked a couple questions
- 19 about how to get educated and what is the purpose for
- 20 purchasing. Just simply on the getting educated side,
- if you do feel that there's a market out there that
- 22 you're missing that you want to tap into, I would
- 23 recommend connecting with some kind of a seller's broker
- cdH 23 recommend connecting with some kind of a seller's broker

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1
      across my desk.
 2
              Be careful if you open that door because a flood
 3
      of proposals could be coming in as we've certainly
 4
      found.
              It becomes kind of a self generating part of
 5
     your business. To the extent we look at the patents it
 6
      really is from a defensive purpose. We don't even get
 7
      to the point of looking at invalidity. If there's a
      reasonable claim that could be made from an infringement
 8
 9
      standpoint we usually look and say, okay, now is this
      reasonably priced and should I just purchase it, unless
10
      there's some very clear prior art that you already know
11
12
      of that might have been generated within your own
13
      company.
14
              But beyond those, it doesn't make sense to do
     prior art searches on all the patents that come across.
15
      Then I would say the challenges that you face, you
16
17
      face when you enter this market is that there's really
     no visibility into what these transactions should really
18
19
      go for. There's no real comparable market data.
20
              You can't do a comparable analysis like
21
      when you're selling your home about what other
     prices are in your neighborhood. You're relying a lot
22
      on the information of the seller or the seller's agent,
23
24
      and then of course your own risk factors weigh in, what
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would -- potential revenue that could be tapped if this

25

- 1 patent was asserted against me in litigation.
- 2 The other challenge that you face is the fact
- 3 that there's no consistency in the way these patents are
- 4 marketed. Some are very robustly packaged where you can
- 5 see very clearly where the relevance of these patents
- 6 are, and others are just thrown over the wall and you
- 7 kind of struggle and say, "All right, what exactly do or
- 8 could these apply to?" So those are some of the
- 9 challenges you would face in getting involved in this
- 10 marketplace.
- 11 MS. MICHEL: Do you react differently depending
- on how the offer for sale is packaged, the patent that
- 13 comes with some explanation of why it's relevant versus
- the patent that's just thrown over the wall?
- 15 MS. KRALL: Oh, sure. More information is
- 16 always better. It certainly guides your analysis.
- 17 MS. MICHEL: Alex?
- 18 MR. ROGERS: Just to clarify, I want to make
- 19 sure that I think we're all distinguishing the situation
- 20 where, for example, you're looking at an acquisition of
- 21 a start-up, for example, that has IP that's valuable and
- 20.000000aepr5cl 04cl 04cl 04cT00alevelopm1ras19

MS. M

- 1 there and portfolios that are out there for sale, I
- 2 agree with John. You can't throw everything at every
- 3 patent. It's too much. It's unreasonable, so you have
- 4 to develop some sort of process that's a funneling
- 5 system where you're skimming as a first look -- probably
- 6 most of what somebody might present to you, and then you
- 7 have opportunities to develop groups internal or
- 8 external that have different types of expertise,
- 9 engineers that have different types of expertise that
- 10 are complimentary, and they can help triage to the
- 11 extent you want to anything that's presented your way.
- 12 I agree with Noreen. There are certain instances
- 13 where these are being presented as "Are you interested in
- 14 these assets?" There are other instances where
- 15 there's a subtle hint that you might want to take a hard
- look at these. But if you sit down and think about it,

- 1 point, so we pass up just most of everything because
- they're not relevant.

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1 here to the FTC to talk about it, but I guess I'm
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- 2 repeating myself. I'll do it one more time and I don't
- 3 know how to better say it but it is absolutely critical.
- 4 MS. MICHEL: Okay. Matt?
- 5 MR. SARBORARIA: I agree, I'll just echo what
- 6 Alex just said. We have a very active acquisition
- 7 program. There's a lot of consolidation going on now in
- 8 the software space so we look very carefully at
- 9 technology of start-up companies. There's a lot of good
- 10 technology out there that's complimentary to our
- 11 existing product offerings. As a part of that due
- 12 diligence and looking at those companies, we
- 13 scrutinize their patents, their pending applications
- 14 very, very carefully. It's absolutely critical to the
- 15 transaction.
- 16 Of course we also look at the potential
- 17 acquisition from a defensive perspective, what type of
- 18 liabilities are we potentially bringing on in the IP
- 19 area in terms of their own product offerings or their
- 20 own customer base, but their patent -- their patent
- 21 position is very important.
- MS. MICHEL: Russ?
- 23 MR. SLIFER: I'll give a slightly different
- 24 perspective. Micron licenses, and I like to think of
- it more as technology or looking at a start-up company

- or individual or university work, something that will
- 2 provide a competitive advantage to Micron, whether
- 3 that's faster time to market, whether it's complimentary
- 4 R&D in an area that we haven't staffed up in yet. The

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1 area we're talking about involves bringing in
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- 2 engineering talent, product development activities that
- 3 we think are product development activities that we
- 4 think we would be able to incubate and bring to market,
- 5 and the IP protection is critical to protecting that
- 6 development.
- 7 So let me just throw out one example. We
- 8 acquired a company called SnapTrack some time ago that
- 9 had very good, very advanced GPS technology,
- 10 assisted GPS technology, for cellular uses and we
- 11 brought that company in. They had terrific engineering
- 12 talent, great patent position and basically every one of
- our chips that sold in the U.S. has their GPS
- 14 tracking technology in it.
- MS. MICHEL: Noreen?
- MS. KRALL: Yes, thank you. So we're also very on 7T111acbhtheipothe anguheiridetprocess as well. The
  - 18 primary drivers are from either filling a business need
  - 19 or adding complimentary technology to our products, and
  - 20 then secondarily we'll look at their IP and their patent
  - 21 position specifically.
  - 22 That varies by start-up. Some are very good and
  - 23 very diligent early on in filing their patents. Others
  - get to the point in their development when they have
  - something that's really ready to be offered. They might

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1 technology, things like that. So it's not necessarily
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- 2 to just block out competitors.
- 3 MS. MICHEL: Okay. John?
- 4 MR. THORNE: I was going to make almost the same
- 5 point. I think most of your panelists have their
- 6 mergers reviewed over at the Justice Department rather
- 7 than here, so I think I'm safe talking about there a
- 8 little bit.
- 9 MS. MICHEL: I think that's right.
- 10 MR. THORNE: I know increasingly the Department
- of Justice has given scrutiny to the patent positions of
- 12 acquired firms to see if under independent income you
- don't necessarily get a monopoly in a relevant product
- 14 market with a patent, but you might have a monopoly on
- one of the ways of doing a process.
- And if you're buying a competitor who has the
- monopoly on the other way of doing it, you've converged
- 18 the only two ways into a single firm, and so I know that
- 19 the Justice Department now is spending a lot of time
- 20 looking at, for example, the mergers of the panelists
- 21 here to see if the combination of patents creates a
- 22 competition problem that would potentially be a problem
- 23 for the merger.
- MS. MICHEL: All right.
- MR. ADKINSON: Do you want to go to

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1 transparency?
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- MS. MICHEL: Transparency, that's right where we
- 3 were going. Noreen raised transparency. Noreen
- 4 mentioned again in the market for secondary patents and
- 5 moving away now from this technology transfer, we have
- 6 heard the comment that this is not a transparent market.
- 7 You don't know what other people are paying and that
- 8 makes it difficult to price and value the patents being
- 9 offered.
- 10 Do others have comments on that problem? Do you
- 11 experience that as an issue? And do you have any
- 12 suggestions on what might be done about it? Would you
- like a more transparent market in which, for instance,
- 14 the price of the licensing deal had to be reported? No
- problems with transparency? John.
- 16 MR. THORNE: I read the reprint of an article
- by Nathan Myhrvold and Mark Lemley on the idea of
- 18 transparency. There's a surface appeal to the idea
- 19 that when you sell a house, that the price
- that the house is sold for is published. That's
- 21 interesting but there are so many other factors that go
- 22 into a license that make them hard to compare to one
- another.
- 24 When I was a baby lawyer, I represented the Chicago
- 25 Board of Trade in a futures contract for December

- do want to know what their licensing practice has been
- with respect to that patent, and pre-litigation, almost
- 3 impossible to get, so it kind of thwarts any ability to
- 4 actually settle before litigation.
- 5 In litigation you can typically get it. It just
- 6 takes a very long time, and there's a lot of expense
- 7 involved in getting to that point, so theoretically, it
- 8 would be nice, but then if you overlay that with what
- 9 John was saying, every deal is different, and I assume
- 10 everybody has dealt with most favored nations clauses in
- 11 their licenses.
- 12 If you've ever had to dispute one of those, you
- 13 realize that no deal is ever the same and there's always
- 14 an out on that provision, so I don't know how we could
- 15 get there.

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1 are not transparent, and rightfully so. I mean, all of
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- 2 these competing entities have an interest in
- 3 confidentiality in their commercial agreements and
- 4 whether that deals with patents or some other form of
- 5 commercial agreement, there is a significant interest in
- 6 confidentiality that has to be respected even in this
- 7 area.
- 8 So in some respects there's tremendous
- 9 transparency. In other respects, maybe not, so but I
- don't know if that's necessarily a problem.
- 11 MS. MICHEL: When you see a patent on a
- 12 secondary market, how easy is it to tell or are you ever
- not sure who actually owns that patent? Who's the true
- 14 party in interest or is there situations in which the
- patent may be held by a Shell company? Russ?
- MR. SLIFER: Well, I think the answer is
- 17 yes, it is difficult to ascertain at times.
- 18 I'm not so sure though that it's the patents that
- 19 are being offered on a secondary market necessarily.
- 20 It's the patents that aren't currently being offered or
- 21 asserted but are being held back or held by a non
- 22 practicing entity.
- 23 Even some practicing entities don't necessarily
- even want the extent of their patent portfolio to be
- known so they may not file some assignments for patents.

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1 It happens for different reasons, but I have seen
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- 2 some evidence that different shell corporations are set
- 3 up and portions of portfolios are split between them, so
- 4 if you license this portfolio from this company, you
- 5 don't necessarily know that you're also exposed to a
- 6 complimentary portion of that portfolio held by somebody
- 7 else or if you can't tell who's holding it.
- 8 I think there is some intentional hiding of
- 9 who owns -- who's the true party in interest.
- 10 MS. MICHEL: And Sarah?
- 11 MS. HARRIS: The other aspect that's a
- 12 little bit problematic is if, as a developing company -
- 13 a company doing development -- you're trying to be
- 14 vigilant about the patent landscape. Say you want to
- 15 look at a particular industry or possible competitors in
- 16 that industry when people aren't actually filing in
- their names, it's very difficult to do, and I don't
- 18 really quite understand. I've heard there are different
- 19 reasons for doing it but they don't seem to further
- 20 transparency.
- MS. MICHEL: Okay.
- 22 MR. ADKINSON: That brings up a broader
- 23 question. We've been looking at the question of how
- 24 difficult it can be just to evaluate a group of patents
- 25 that are offered to you for a sale. But if one takes a

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about when you embark in a certain technological
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- 2 direction.
- 3 And coupled with all of that, the concern that
- 4 you might have of having a claim of willful infringement
- 5 being brought against you ultimately leads to a
- 6 conclusion that it's better not to look or search or do
- 7 clearance activities at all and go down a particular
- 8 technology direction and then address anything that
- 9 comes up at a later date.
- 10 MR. THORNE: I would just add that in agreement
- 11 with what Noreen said, that the difficulty is not
- something that can be fixed with tweaks to the way
- patents are written or published. I tried at one time
- 14 to count how many issued and still in effect patents
- 15 might potentially be relevant to a company like Verizon
- 16 and the number is around 700,000, only 10 to 20,000 of
- those trading every year, but the number is very, very
- 18 large. It would be very difficult to do that kind of
- analysis for the entirety of what's out there.
- MR. ADKINSON: Alex?
- 21 MR. ROGERS: So doing product patent searches
- and looking in the area where you're attempting to
- 23 launch a new product is difficult, and it does require
- concentrated resources and it's never a simple process.
- 25 At least in my experience it's never a simple process.

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1 but I do think we ought to step back and look at the big
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- 2 picture and point out why that's a really good problem
- 3 to have. It's a really good problem to have because we
- 4 have an incredibly innovative society, and we have a
- 5 patent system that has resulted in incredible innovation
- 6 in the United States.
- 7 So that problem resides in or simply sits on
- 8 tremendous inventiveness in this society. So while
- 9 we certainly agree that the Patent Office can be
- improved and we can hopefully have more quality in terms
- of the patenting that's out there, the problem that we
- 12 all have in building complex products that call upon
- large numbers of patents potentially is in a fundamental
- 14 way a very good problem to have.
- MR. ADKINSON: John.
- 16 MR. THORNE: Alex is one of the best IP lawyers
- in the world so I have terrific respect for his ability
- 18 at analyzing things. But, I just remember the patents
- 19 that he gave a pass on that almost stopped all the chips
- 20 that his company made coming into America because they
- 21 were to found to be infringing patents that Alex had a
- 22 chance to look at.
- 23 In the first panel there were some differences
- 24 between the life science patents and high tech or IT
- patents described. I do think there's a fundamental

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1 property law kind of difference between the patents.
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- 2 Typically your miracle drug is a molecule, and one
- 3 patent might be enough to protect it. Often there are
- 4 more, but sometimes it's one patent, one product. In
- 5 the high tech business a simple product can have a
- 6 thousand or more patents on it while one of Vonage's
- 7 defenses in the case that Verizon brought against them,
- 8 their damage expert got up and said, "Verizon only
- 9 has asserted seven patents against us. There are a
- 10 thousand patents that cover our product."
- 11 They may have been right. There may have been a
- 12 thousand patents covering their product. It's just the
- 13 number of intersecting property rights on top of a
- 14 simple -- in Vonage's case a simple high-tech product.
- 15 It's too big.
- MR. ADKINSON: We had wanted to focus on the
- source of the problem and we had let out several
- 18 possibilities. Is clarity of patent drafting something
- 19 that is a difficulty but not really the main source?
- 20 Are the sheer numbers what really drive the problems?
- 21 MR. THORNE: If I was ranking things, sheer
- 22 numbers is number one. What happens if a patent is
- 23 enforced? Suppose you make a mistake? Even a good
- lawyer can make a mistake about whether you infringe and
- 25 the patent is valid and now you're in the remedy phase

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and there's uncertainty about the remedies that would
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- 2 be applied. A company like Verizon that has a lot of sunk
- 3 capital in the ground worries about whether it's going to be
- 4 held up by having committed so much investment, and
- 5 being a big business means you have a big risk in
- front of a jury or if you're, God help you, at the ITC
- 7 where injunctions can still be issued.
- The uncertainty of the remedy phase is number 2,
- 9 and then I think the notice function the patent served
- is pretty far down the list after that.
- 11 MS. BELLON: Anyone else on the topic? Russ?
- 12 MR. SLIFER: Well, somewhat on topic with that.
- 13 I would agree with both Noreen and John on that sheer
- 14 quantity is an issue, especially in a semiconductor
- 15 industry where we have literally thousands of potential
- 16 patents to read. But I would also go with the abuse
- of the system, abuse of the continuation system
- 18 especially in a product cycle that is less than even the
- 19 18 to 24 months maybe or three years of development is
- less than a pendency or a case might issue within that.
- 21 But sitting back and waiting until an industry
- 22 is fairly mature and has sunk billions of dollars in
- 23 capital and then what I would consider morphing the
- 24 specification to provide claims that read on the later
- 25 developed product to me adds a great deal of uncertainty

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1 even if I spent all of my time analyzing the claims that
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- 2 are out there that I can find that aren't pending in the
- 3 Patent Office or have been published.
- 4 I certainly can't tell in a hundred page
- 5 specification which one paragraph the owner might grab
- 6 some support or argue some support for a claim that
- 7 I never foresaw coming out of.
- 8 MR. ADKINSON: Noreen.
- 9 MS. KRALL: Yeah, I would certainly add, I agree
- 10 with the problem once the patent has been issued and
- 11 you're facing litigation. But some of these problems I
- 12 think should be at least addressed to some extent
- 13 upstream in the Patent Office. There should be a
- 14 greater degree of emphasis on 110 type rejections para
- one, para two.
- 16 The patent examiners don't necessarily have the
- tools available to use that a lot of the outside
- analytical tools that we use, OCR searching
- 19 capabilities that would allow you to find whether or not
- there's claim terms that are undefined in the
- 21 specification or not depicted in the drawings.
- 22 So if there were some improvements in the patent
- examination process in some of these areas, to tighten
- 24 up and very clearly articulate what the patentee intends
- 25 to be their invention, that might help for the future.

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1 There are also areas where patents are being allowed that
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- there's just a dearth of prior art out there, and
- 3 following some of the practice that's taken place in
- 4 Europe where industry is able to provide or populate
- 5 databases with non-patent prior art to help in the
- 6 examination process and perhaps result in better quality
- 7 patents I think is something that should be explored.
- 8 MR. ADKINSON: Matt?
- 9 MR. SARBORARIA: I agree with John that the
- 10 number 1 problem is sheer numbers for us in the software
- industry. But uncertainty regarding claim scope is also
- 12 a big problem, and I think it's particularly so in the
- 13 software space where it is often unclear whether a given
- 14 claim reads on software at all because of the unique
- 15 ways that software inventions can be claimed, including
- 16 many hardware elements.
- So, even with a very diligent, thorough and
- 18 costly search or clearance study, we run into the
- 19 situation where patents are asserted against us, patents
- 20 that never came up through that very diligent process.
- MR. ADKINSON: Sarah?
- 22 MS. HARRIS: Our industry has a slightly
- 23 different issue. Our number 1 issue would not be
- 24 quantity but it is definitely quality because you'll
- 25 have the garage inventor sitting going, wow, maybe I

the quantity issue stems from an underlying phenomena

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2
      that is a very good thing, and that is the degree to
 3
      which we encourage innovation in this country. It's
 4
     been enormously successful for a very, very long time,
 5
      so I'm not sure how you completely solve the quantity
 6
      issue.
 7
              But I think I agree with everyone else on the
 8
      panel here that focusing resources on the Patent and
 9
      Trademark Office to give them the tools and the people
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      that they need to examine applications in a way that
      they really ought to be examined, particularly when you
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12
      probably have a growing number of applications being filed
      as you do, clearly we do, is probably -- I think
13
14
      everybody agrees that ought to be done.
15
              MR. ADKINSON:
                             In the shameless plug category,
      we're going to have a panel tomorrow afternoon that's
16
17
      going to -- an all star group addressing those topics.
18
              It sounds to me like necessarily when you're
19
      making new product introductions you have to make a risk
20
      analysis based on the circumstances. To the extent you
      can talk about it, how does the current patent system
21
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affect that? I guess John had mentioned remedies as one

choose to not go forward at times, and how hard it is to

aspect of how the system ultimately affects it, but if

you could speak to the risks you faced, whether you

- 1 go forward in the face of some of these risks?
- 2 MS. MICHEL: Please feel to bring in the damages
- 3 issue at this point. I'm sure you all have a thought
- 4 about how that affects your thinking, the potential
- 5 liability.
- MS. HARRIS: Whenever we introduce a new product
- 7 or at its conception, we do the analysis to see, "Will
- 8 the patents factor into this," but due to what Noreen
- 9 said earlier, if it's a pretty quickly evolving
- technology, a search isn't going to do us any good
- 11 anyway, and right now like all the patents that are
- 12 currently being asserted us against in litigation we
- would never turn up in a search. It would never have

- 1 uncertainty.
- We can't quantify the risk, so we just say, is
- 3 it a good business decision to get in this market? Is
- 4 it going to give us a competitive advantage and go
- 5 forward?
- 6 MS. MICHEL: Do others feel you can't quantify
- 7 the risk because there's too much uncertainty.
- 8 MR. SLIFER: Yes.
- 9 MS. MICHEL: Alex?
- 10 MR. ROGERS: It depends. There's really not a
- 11 categorical answer, and certainly not in our case. It

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1 fairly dim window for most of it, we saw 884
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- 2 semiconductor patents of the type that Broadcom used to
- 3 challenge Qualcomm's chips coming in wireless phones
- 4 into the U.S. That's an awful lot of patents to
- 5 evaluate. We don't really have a good window into the
- 6 way the semiconductors work. We have high level
- 7 requirements for things but how the patents read on
- 8 semiconductors are things that Alex's business would
- 9 know a lot better than we do, but there are an awful lot
- of patents, and those are the ones that were for sale by
- 11 brokers during that period.
- 12 Unlike Sarah, we're not seeing garage inventors
- with patents that are badly prosecuted. We're seeing
- 14 patents that were originally prosecuted by the good R&D
- 15 labs of the fortune 50 companies that are now in the
- 16 secondary market for sale. That's the main source of
- what we see, and is the uncertainty a deterrent to
- 18 innovation?
- 19 I think in the case of a Verizon or similar
- 20 companies, it's a great source of worry. We spent a lot
- 21 of money trying to deal with it and I see the purpose of
- 22 patents being disserved by the current system.
- 23 MR. ADKINSON: Early in the panel there had been
- 24 a discussion of some litigation you face and I think
- 25 several of you indicated that there's quite a few NPE

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1 different result, but unfortunately the operation as it
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- 2 is now is simply to sue first.
- 3 You then are faced with spending significant
- 4 amounts of legal resources getting to the point where
- 5 you have enough information to drive realistic
- 6 settlement discussions, and that's unfortunate.
- 7 MS. MICHEL: You mentioned sue first. Has
- 8 MedImmune increased the sue first phenomena versus
- 9 negotiate first?
- 10 MS. HARRIS: In terms of?
- 11 MS. MICHEL: Patentee being worried about a
- 12 declaratory judgment action being brought and so just
- going right to court? I have heard some people --
- 14 MS. KRALL: I think it was ST Microelectronics
- 15 was --
- MS. MICHEL: The SanDisk case, right, based on
- 17 MedImmune.
- 18 MS. KRALL: After that it was rare we saw any
- 19 demand letters. In that one year alone I think we had
- 20 eight NPE lawsuits filed against us without any prior
- 21 notice.
- 22 MS. MICHEL: In what jurisdiction were they
- 23 filed in?
- MS. KRALL: Texas.
- MR. THORNE: We have about 24 cases pending,

- 1 almost all in Eastern Texas. One of them we got notice of
- 2 the patent before the lawsuit was filed and that's
- 3 because they filed a parallel lawsuit against other
- 4 companies and we saw the other lawsuits, not the patents
- 5 so we filed a declaratory judgment action in New
- 6 York anticipating that they would sue us in Texas and
- 7 settling that case, but otherwise they're all in Eastern
- 8 Texas.

sell.

- 9 MS. MICHEL: Matt?
- 10 MR. SARBORARIA: It's a similar at Oracle.
- 11 The vast majority of our cases are ones in which our
- 12 first notice of the patent was the filing of the
- lawsuit. We too have seen a decrease in numbers of
- 14 assertion letters post-MedImmune. We've seen an
- 15 increase as we talked about earlier this morning in
- offers to sell patents which are unambiguously offers to

because they filed a parallel lawsuit against

18 We have seen a decrease in outright demand

3

- 19 letters as well as this sort of vague carefully worded
- 20 letters I think that are fairly interpreted as demand
- 21 letters based on the declaratory judgment case law.
- 22 MS. HARRIS: I've been at AOL for just a little

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I would say, a few requests to license, and I hadn't seen
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- 2 those at any company that I've worked for before but
- 3 it's people -- it's these licensing entities that are
- 4 representing larger companies, and they said we have
- 5 sometimes large portfolios, sometimes a number of
- 6 patents in this specific area, but I wouldn't have
- 7 expected that with MedImmune.
- 8 MS. MICHEL: How have the number of lawsuits
- 9 you've been defending grown over the past five or seven
- 10 years? Anybody have a sense of that?
- 11 MS. HARRIS: We've seen a 30 percent increase in
- 12 the past two years year after year.
- MS. MICHEL: Matt?
- 14 MR. SARBORARIA: We've gone from zero to 20 in
- 15 the past five years.
- MS. MICHEL: Okay. Alex?
- 17 MR. ROGERS: We've had a lot of litigation in
- 18 the last three or four years, but it's been --
- 19 MS. MICHEL: Besides the Broadcom litigation?
- 20 MR. ROGERS: Besides the Broadcom litigation.
- 21 We've had some NPE litigation. We actually are a co-
- 22 defendant in a case with Verizon, and we have other
- 23 situations involving NPEs, but for the most part I would
- 24 say that most of our litigation time and expense has
- been, I'm lacking a word, traditional in the sense that

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1 it is involving other product companies.
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- 2 MS. MICHEL: John?
- 3 MR. THORNE: These are approximate numbers.
- 4 2004 I think we had one NPE case or troll case filed
- 5 against us. 2005 three, 2006 three, starting in
- 6 2007-2008 one a month, and across a large number of
- 7 companies, it was a handful of dozens in 2004
- 8 growing into the hundreds by 2007-2008. There's been a
- 9 very large increase.
- 10 MS. MICHEL: Noreen and also I would be
- interested in your theories on why?
- MS. KRALL: I will simply share statistics.
- 13 Until about 2004 we typically ran one to two patent
- 14 cases on our docket over the course of a series of
- 15 years, and it was around 2006 the numbers just jumped up
- into the double digits and has stayed around the 10, 12
- 17 active cases since then.
- 18 MS. MICHEL: What happened in 2004? Theories on
- 19 why? What are the reasons? What do you think is
- 20 driving this behavior and why is this a good business
- 21 model for the people bringing these lawsuits? This is
- 22 your chance.
- MS. KRALL: Money.
- MS. MICHEL: Russ?
- MR. SLIFER: Why is it a good business model?

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1 Well, it doesn't require as much capital investment. It
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- 2 certainly doesn't require even on the litigation side
- 3 nearly as much to bring the suit. The uncertainty of
- 4 how the patent is going to be interpreted, the
- 5 uncertainty of how a jury is going to view damages,
- 6 certainly it has -- I mean, there have been a few things
- 7 that have changed, whether it be injunctions or KSR,
- 8 that certainly might affect that business model.
- 9 But I guess to your main question is it's a
- 10 business model that tends to pay off quite well and in
- 11 certain industries, can be asserted against an awful lot
- of defendants so collecting just enough from each one
- 13 cumulatively pays off quite well for the investment.
- MS. MICHEL: Matt?
- 15 MR. ADKINSON: Would anyone like to comment on
- 16 how the developments like KSR and MedImmune and
- 17 willfulness have potentially affected this evaluation,
- 18 and *eBay* of course?
- 19 MS. MICHEL: And your other theories on why this
- is happening and the effect of these sort of
- 21 developments on what's happening. Alex?
- 22 MR. ROGERS: I'll start. Clearly these cases
- 23 have pushed the balance in favor of the
- 24 potential defendant and against the interest of the
- 25 patentee, so eBay has obviously done that. Seagate has

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done that to some extent with the objective standard for
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- willfulness, and so there has been a shift, and there
- 3 has been -- I think John said it earlier, that there's
- 4 reform occurring in the courts, and I think that's
- 5 definitely true. There is reform occurring in the
- 6 courts, and the discussion in eBay even points to the
- 7 reform being directed towards that non-practicing
- 8 entity.
- 9 So there has been this shift, and it's a
- 10 relatively recent shift. I think there's a lot to be
- done to see how it plays out and how the courts continue
- to apply *eBay* and continue to apply *Seagate* and work
- 13 some of these issues out, and the shift could continue
- 14 again against the patentees in favor of the defendants
- in the court system itself without ever getting to any
- 16 legislative issues.
- MR. ADKINSON: In light of time, if people would
- 18 also add what -- in addition to this particular topic of
- 19 the impact of these cases, what additional things they
- think might need be done given all we talked about
- 21 today. John?
- 22 MR. THORNE: Again it's hard to disagree with
- 23 Alex on anything, but eBay was decided in 2006. We have
- seen much more troll patent cases in 2007 and 2008 than
- 25 ever before, so eBay had no affect on troll cases being

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1 filed. There's a terrific uncertainty in how damages
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- works. Thanks to my colleague Gail Levine, we're going
- 3 to submit a paper that goes through some suggestions to
- 4 the Commission on damages later this week. There is
- 5 reform going on in the courts. There's a lot more that
- 6 needs to be done. I appreciate FTC's getting interested
- 7 in this again.
- 8 MR. ADKINSON: Noreen?
- 9 MS. KRALL: I would like to address one last
- thing while we're here today, and that has to do with
- 11 standard setting practices.
- MR. ADKINSON: Oh, yes.
- MS. MICHEL: Yes.
- 14 MS. KRALL: The standard setting practice is
- 15 really a critical part of the technology development
- 16 process. It really is when companies get together under
- 17 a set of standard setting organization bylaws and
- 18 develop an agreement on the common platform and
- 19 parameters that technology is going to be developed on
- 20 so that interoperable and quite frankly, at times,
- interchangeable products can be developed.
- One of the problems that we're seeing partially
- 23 driven by the secondary market is the fact that
- 24 participants in the standard setting process have made
- 25 commitments or assurances to these organizations in the

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1 development of these standards that might not
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- 2 necessarily be honored by successors in interest when
- 3 those patents are subsequently sold so we're seeing that
- 4 as a problem.
- 5 Once you've got broad industry adoption of a
- 6 standard, lock-in and investment, irreversible
- 7 investments in developing products on that standard when
- 8 somebody comes out and asserts patents against products
- 9 to that standard, it causes quite a bit of disruption in
- 10 the technology market and ultimately impacts the
- 11 consumer.
- 12 The other problem that we've seen in the
- 13 standard setting process is the lack of disclosure, if
- 14 you would, of patent rights while the standard itself is
- 15 being developed, and again greater transparency in that
- 16 process, ex ante type of policies being driven by
- 17 standard setting organizations I think would be a
- 18 benefit for the tech industry in general.
- 19 MS. MICHEL: Any other comments on that?
- 20 MR. ROGERS: Can I finish up in response to
- 21 Bill's request we make one last comment?
- MS. MICHEL: Please.
- 23 MR. ROGERS: So as I said I do think that reform
- 24 is recurring in the courts, and while that plays out, it
- often takes a long time for things to play out in the

courts. One of the things I certainly wouldn't want to

1

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2
      see happen is the focus on NPEs cause a circumstance
 3
      where we're undermining what is such an incredibly
 4
      valuable patent system for our country and for
 5
      innovation.
 6
              Qualcomm is a huge product company, but we think
 7
      of ourselves as an R&D and a tech transfer company, and
      our ability to do what we do in R&D is dependent on a
 8
 9
      strong patent system and our ability to license and fund
      the R&D, so we certainly would hate to see that
10
11
      undermined.
12
              MR. ADKINSON: Got you. Any other closing
13
      thoughts of any kind? If not thanks very much. We
      ended on time.
14
              MS. MICHEL:
15
                           Thank you.
16
              (Applause.)
17
              (Whereupon, a lunch recess was taken from 12:15
18
      p.m. to 1:45 p.m.)
19
20
21
22
23
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25
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1	AFTERNOON SESSION
2	PANEL 3: MANUFACTURING AND DIVERSIFIED COMPANIES
3	MODERATORS:
4	SUZANNE MICHEL, FTC
5	ARMANDO IRIZARRY, FTC
6	PANELISTS:
7	JENNIFER M. STEC, Intellectual Property Counsel, Ford
8	Global Technologies
9	GARY GRISWOLD, Retired President and Chief IP Counsel,
10	3M Innovative Properties
11	CARL HORTON, Chief IP Counsel, GE
12	STEVEN W. MILLER, Vice President & General Counsel,
13	Intellectual Property, The Procter & Gamble Company
14	RICHARD F. PHILLIPS, Chief Attorney, Technology,
15	ExxonMobil Chemical Company
16	
17	MS. MICHEL: Thank you for returning and
18	attending the FTC's hearing on the Evolving IP Marketplace
19	I'm Suzanne Michel, the Assistant Director for Policy
20	here, and this afternoon we will be talking about the role
21	of technology markets and patent markets for diversified
22	manufacturing companies and in the life sciences

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1
      tomorrow will address economic perspectives on IP and
 2
      technology markets, and we'll have some of the leading
 3
      academics and economists thinking about those issues.
 4
              Our next session will be on April 17 - the press
5
     release will be out soon - and will look at some of the newer
     developments in patent markets. We'll have the CEOs of
 6
7
     Ocean Tomo, Acacia, ThinkFire and some academics who
      have been thinking about this and some people who have
 8
 9
      to live within these systems talking about their
      experiences with secondary patent markets.
10
              Our final hearings in this series will be on May
11
12
      4th and 5th in Berkeley. We're very kindly being hosted by
      the Berkeley center for law and technology. We'll be
13
      covering many of the same issues that we've covered
14
15
      throughout the hearings in D.C. within those two days.
              We welcome all comments. Feel free to call any
16
17
      of us, we would love to hear from you. In addition, the
      FTC has the record open so that any member of the public
18
19
      can submit comments about any of the topics we're
20
      discussing. We'll leave that open until May 15th so
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up in these hearings, and then we will have to close it down and buckle down and begin working on our report.

people can comment on the sort of issues that are coming

24 So thank you very much. I'll turn it over to

25 Armando to introduce our panelists.

21

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1 MR. IRIZARRY: Good afternoon. I'm Armando
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- 2 Irizarry, Counsel for Intellectual Property here at the
- 3 Commission. This panel is the Manufacturing and
- 4 Diversified Industries panel, and we have a
- 5 distinguished group of panelists representing some of
- 6 the better known companies that make products that
- 7 we are familiar with.
- 8 I'm going to begin with Gary Griswold. Mr.
- 9 Griswold is a Consultant for 3M and was, until recently,
- 10 the President and Chief Intellectual Property Counsel of
- 3M Innovative Properties Company. He has practiced
- intellectual property law, at 3M and also at Dupont, for
- 13 34 years.
- 14 He's the past President of the Intellectual
- 15 Property Owners Group and the American Intellectual
- 16 Property Law Association. He's a member of several
- other professional associations where he has held
- 18 leadership positions.
- 19 He's been a member of the U.S. Secretary of
- 20 Commerce Industrial Function and Advisory Committee on
- 21 Intellectual Property Rights for Trade Policy Matters
- and an alternate member of the U.S. Secretary of
- 23 Commerce Advisory Commission on Patent Law Reform.
- Next on the panel is Carl Horton. Carl is GE's
- 25 Chief IP Counsel. He joined GE in 1992. Prior to

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1 and the IPO and on the boards and committees of several
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- 2 other professional, educational and academic
- 3 organizations.
- 4 Richard Phillips is the Chief Intellectual
- 5 Property Counsel of ExxonMobil Chemical Company. He
- 6 began employment with ExxonMobil in 1982 and held
- 7 positions in various ExxonMobil affiliates and ventures
- 8 prior to assuming his present position in 1998. He
- 9 began his IP career with Caterpillar Corporation in
- 10 Illinois.
- 11 He also worked for a year as a field engineer
- 12 overseas, immediately after getting his law degree. This
- on the theory that he would be a lot more fun than
- 14 practicing law. According to him it wasn't. Mr.
- 15 Phillips is a member of the IPO Board, and he's active
- in other IP related associations. In the IPO, he serves
- on the Board of the Education Foundation, and he's
- 18 active in the Amicus Committee.
- 19 Before I introduce our last panelist, I just
- 20 want to mention that if you saw the earlier agenda, Bill
- 21 Coughlin, President and CEO of Ford Global Technologies
- 22 was supposed to be on this panel but unfortunately he
- 23 could not be here with us today. In his stead, he sent a
- very able replacement in the person of Jennifer Stec.
- 25 Jennifer is Intellectual Property Counsel for

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1 Ford Global Technologies, a wholly owned subsidiary of
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- 2 Ford Motor Company, responsible for all intellectual
- 3 property matters across Ford's worldwide enterprise.
- 4 Ms. Stec manages Ford's patent litigation as
- 5 well as patent and licensing matters related to Ford's
- 6 telemetrics and infiltronics technologies. Prior to
- 7 joining Ford in 2000, Ms. Stec was Counsel at another
- 8 automotive OEM and also practiced intellectual property
- 9 at a Detroit area intellectual property firm.
- 10 We're now going to begin with introductory
- 11 remarks, so each panelist will have about five minutes
- to make introductory remarks, and why don't we begin
- 13 with Gary.
- 14 MR. GRISWOLD: Thank you. Thanks for the
- 15 introduction, and as was mentioned I am now somewhat
- 16 retired but actually not totally retired, but I'm here
- on behalf of 3M, and thank you for having these
- 18 hearings. I think they'll be very interesting. I
- 19 listened to part of the hearing this morning and it was
- 20 good.
- Just speaking from 3M's perspective, the patent
- 22 system is a very significant issue for our company. 3M
- 23 and its affiliates own a patent portfolio of more than
- 6,000 issued U.S. patents. We have a long
- 25 standing committee to protect our research and

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development investments which totaled $1.4 billion
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- 2 last year and it's resulted in many inventions
- 3 and innovative products.
- 4 3M's business interests are extremely diverse.
- 5 We sell over 55,000 products in six different industry
- 6 segments. The segments that range from industrial
- 7 products from sand paper and adhesives, consumer
- 8 products like post-it notes and Scotch tape, safety and
- 9 security products like RFID tags and readers and
- 10 respiratory masks, displaying graphics products like
- 11 optical films for computer screens and reflective
- 12 sheeting for road signs, telecommunication products like
- 13 optical -- fiberoptic connectors and healthcare products
- 14 like stethoscopes, dental implants and medical billing
- 15 software.
- 16 Just as an aside, I actually managed the dental
- 17 business for six years, so I ran an operating division
- 18 of the company, which makes me a little unique in the
- 19 patent circles I think.
- One thing that 3M does very well is it takes
- 21 technology from one industry, for example, abrasives and
- 22 puts it to work into another industry like dental. We
- 23 did that, and that's why the patent system is very
- important to protect those inventions because once we've
- done it, other people say, "Gee, we can make that

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1
      connection."
 2
              The bottom line is 3M is very interested in
 3
     making sure we have a strong patent system and we often
 4
      are on the offense asserting our patents but not always.
 5
      Sometimes we're sued for patent infringement, so we like
 6
      to see a balance to patent law and that's the way we've
 7
     participated in the debates that have been continuing on
 8
     patent reform.
 9
              MS. MICHEL:
                           Thank you. Carl?
                           I do want to think the FTC for
10
              MR. HORTON:
     holding these hearings and for allowing companies like
11
12
      GE to come in and give our thoughts and opinions and
     perspective on the issue of intellectual property.
13
14
              I think it's not only important today but I
15
      think it's going to be increasingly more important
     particularly in the environment like we have now.
16
                                                          Ι
17
      thought I would give a 60 second version as well
18
      about what GE is.
19
              It's not surprising we're a quintessential
20
      conglomerate, and that we've got a lot of businesses in
```

conglomerate, and that we've got a lot of businesses in a lot of different spaces, but the way I kind of break it down is I start with the technology pieces of it and that's what we call our infrastructure business, and as the name applies, it's products necessary to build up the infrastructure of our country.

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1
              So you would start with energy and supplying
 2
      energy as well as the oil and gas equipment and
     pipelines that feed that. Then we get to the
 3
 4
      transportation segment where it's aircraft engines and
 5
      avionics as well as the rail systems that move products
      from one end to the another. Then finishing that out
 6
 7
      with probably security and water.
              Then we move to another industry segment that
 8
      we're in which is healthcare, also a significant
 9
      business, although only about at third of the size of
10
      the others, but still about $17-18 billion.
11
12
      We are predominantly a diagnostics company, all the
      equipment and life science tools around the diagnostics
13
      as well as information technology within hospital and
14
15
      other health care information technology within hospital
      and other health care.
16
17
              Third, is the consumer and industrial
     business, products that people tend to know a little
18
19
      better, lighting, appliances and things like that, as
20
      well as lesser known products along the
      electrical infrastructure pipeline, so once the energy
21
22
      is generated, anything that's necessary to get it from
      the generation side back into the home or an office
23
24
      building or a plant as well as the safety electrical
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infringement that accompanies that as well as factory

25

- 1 automation and the like.
- 2 Then finally one of our other technology or
- 3 investment intensive businesses is NBC Universal where
- 4 we are a broadcast company, a media company that owns a
- 5 number of different cable channels.
- 6 And then finally the part of the company we
- 7 don't like to talk about in today's environment is
- 8 financial services, so it was a very big part of our
- 9 company. It's now a lesser part of our company but
- 10 still very significant, so we're in consumer and
- 11 commercial finance.
- 12 So that is the background. You had

- 1 unsuccessful investments.
- 2 Then we have those that are more defensive where
- 3 I think that the R&D investments are a little lower, the
- 4 unpredictability is also much lower, and therefore you
- 5 have a lot more competitors. The products tend to be a
- 6 little more commoditized, and so we tend to build our
- 7 portfolio primarily with gaining some competitive
- 8 advantage for the features that we may put forth in the
- 9 market first, but for the most part, I would say that
- 10 their structure around IP is more of a defensive
- 11 model.
- But I would say for all of GE, the IP serves as
- a very valuable function in being a facilitating force
- in collaboration with third parties, joint ventures,
- joint developments. It's a tool that enables us to do

- 1 taking over where we have invested and driven forward
- 2 technology and innovation.
- 3 MS. MICHEL: Steve?
- 4 MR. MILLER: Thank you, Suzanne, and thank you
- 5 for inviting Procter and Gamble to participate. Three
- 6 billion times a day Procter and Gamble brands touch the
- 7 lives of people around the world. We have a strong
- 8 portfolio of trusted quality leadership brands including
- 9 Pampers, Tide, Pantene, Bounty, Crest, Olay and
- 10 Gillette.
- 11 The P&G community includes approximately 138,000
- 12 employees working in over 80 countries. In 2008, Business
- 13 Week selected P&G as the world's 8th most innovative
- 14 company. While many associate innovation with computer
- 15 companies rather than consumer products companies, that
- 16 association is too limited.

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1 Patents and trademarks protect this investment in R&D as
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- 2 well as ensure P&G maximizes its return on its
- 3 investment. Without strong IP protection, the value of
- 4 our brands can be significantly diminished. Competitors
- 5 would be free to copy our technological and commercial
- 6 innovation without making the same investment or
- 7 incurring the same risks.
- 8 IP provides us a competitive advantage that
- 9 leads to increased value for shareholders and improved
- 10 products for consumers. P&G maintains over 36,000
- 11 active patents worldwide and over 110,000 trademarks
- 12 worldwide.
- 13 Traditionally, P&G's success resulted from
- 14 internal invention that led to innovation. In 2000, our
- 15 CEO, A.G. Laffley, challenged the company to reinvent
- 16 our innovation business model. He understood that the
- key to future sustained growth was a new concept of open
- 18 innovation, leveraging one another's innovation assets.
- 19 He made it a key strategic goal to acquire 50
- 20 percent of P&G's innovation from outside the company.
- 21 This year P&G will exceed that goal. Through our
- 22 connect and develop innovation model, R&D productivity
- 23 is increased by nearly 60 percent, and our innovation
- 24 success rate is more than doubled while the cost of
- 25 innovation has fallen.

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1 An important learning from our Connect and
```

- 2 Develop program was the realization that innovation
- 3 was increasingly done at small and mid-sized
- 4 entrepreneurial companies, universities, government labs
- 5 and by individuals.
- 6 These entities were eager to form partnerships
- 7 with industry and to license and sell their IP. One
- 8 critical aspect of this program thus became the ability
- 9 to create and optimize the value of IP for both P&G and
- 10 its partnerships through sale, licensing, or alternative
- 11
- 12 means of commercialization.
- We've restructured our thinking on ownership and
- 14 utilization of IP to better benefit all parties. The
- 15 licensing of technology provides P&G with access to
- 16 other's IP to accelerate P&G's innovation. We do much
- more in licensing of technology than we've ever done
- 18 before.
- 19 We also out-license P&G's internally developed
- 20 IP. The out-licensing program results in a source of
- 21 revenue, decreased costs, and new opportunities for
- 22 licensing joint ventures and strategic alliances. Over
- 23 \$3 billion in sales by other companies is powered
- 24 by P&G IP.
- In terms of patent litigation, P&G is typically

- 1 about equally enforcing its rights against infringers
- 2 and a defendant. Because we are in both positions we
- 3 take a very balanced viewpoint on litigation.
- 4 As a defendant, patent assertions has some effect
- 5 on our ability to innovate in that it divers research
- 6 away from core research. However, given the time and
- 7 effort we devote to avoiding issues with other patent
- 8 owners before we market our products, this is a minimal
- 9 cost compared to the overall R&D budget.
- 10 Rather than hindering innovation, we often find
- 11 that patents and patent litigation spur our competitors
- 12 and us to find new and innovative ways to solve the
- 13 problem by designing around the patented invention,
- often leading to a better and cheaper solution for
- 15 consumers.
- 16 I look forward to discussing these issues in the
- 17 roundtable, Suzanne. Thank you.
- 18 MS. MICHEL: Thank you. Thank you very much.
- 19 Richard?
- 20 MR. PHILLIPS: Thank you very much for the
- 21 invitation today. ExxonMobil probably needs no great
- 22 introduction. We're an integrated oil, gas and
- 23 petrochemical company. We use innovation and technology
- 24 to find, develop, produce, and refine fuel, lubricants and

- 1 Research and development is key to our existence. We
- 2 invest more money in R&D than any of our competitors in
- 3 any nation of the world.
- 4 We use that technology not only in our own
- 5 operations but we license dozens of our competitors in
- 6 dozens of countries around the world to use technology
- 7 that we have developed. But for a strong patent system
- 8 in the United States, much of that technology would not
- 9 be developed, or if developed, would not be licensed. A
- 10 strong patent system is key to us.
- 11 MS. MICHEL: Jennifer, and thank you for
- 12 stepping in. We very much appreciate that you're here.
- 13 MS. STEC: Thank you very much, and thank you
- 14 inviting Ford to participate. As with the other
- 15 companies, patents are very important to Ford, and I
- 16 don't think Ford needs any explanation in terms of its
- 17 product. In fact, we've been divesting everything that
- is not very core to automotive.
- 19 In that regard, we've still been focusing on
- 20 improving the technology and fostering innovation in our
- 21 vehicles, and for those kinds of activities and our R&D
- 22 patents and the IP system are very important to us.
- 23 First of all, they help us provide hard core
- 24 inventions. They help us to encourage our inventors and

- and to be rewarded for their competitions.
- 2 They also help us leverage that investment in
- 3 joint ventures and other kinds of relationships that we
- 4 have with others. It's a way for us to get value and to
- 5 bring equity into a transaction in order to get
- 6 something back.
- 7 We also use patents to help support our brands
- 8 and our advertising. Recently, we've been advertising
- 9 patents that we've obtained in vehicles and like everybody
- 10 else we use patents for defensive reasons. Each year,
- 11 Ford files about 500-600 patent applications in the
- 12 U.S. on inventions that we make in the U.S. as well as
- 13 additional patents overseas.
- We have a very active licensing program and
- 15 bring in tens of millions of dollars a year in licensing
- of technology -- not only patents though -- software and

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1 reaching out to bring technology into the company. Can
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- 2 you elaborate more on that and how it's going? Is that
- 3 successful, a successful program? Do you see it
- 4 continuing at P&G?
- 5 MR. MILLER: It's going to continue for a long
- 6 time. I think I cited some stats in my opening
- 7 statement, but that it's actually reduced our costs of
- 8 R&D. We're making more connections and we're bringing
- 9 more products to the marketplace than we ever had at a
- 10 faster rate, and I'm proud to say that many of the folks
- on the panel are my suppliers.
- 12 And so we've reached out and we've worked with
- them and we've used the expertise and the knowledge that
- 14 they have and the intellectual property that they have
- and bring that together with ours, and one plus one makes
- 16 three or five instead of two, and so I think this has
- been a huge benefit but it wouldn't happen without
- 18 intellectual property.
- 19 If each side wasn't able to bring, and protect
- 20 what they bring, into the relationship, and then manage
- 21 how IP comes out of the relationship, there wouldn't be
- 22 an incentive for anyone to get together because we would
- 23 not be able to take that risk because others could come
- in and exactly duplicate what we do, quickly and without
- 25 the risk and the money that we put into it.

- 1 MS. MICHEL: So you're talking about bringing in
- 2 technology from both larger companies and then in your
- 3 opening statement you talked about start-ups and
- 4 universities.
- 5 MR. MILLER: Right.
- 6 MS. MICHEL: Does the process work any
- 7 differently depending on who you're dealing with, a
- 8 start-up versus --
- 9 MR. MILLER: Not really, other than the
- sophistication of the party. We found that small
- 11 entrepreneurial companies, universities, and even the
- government is very receptive. We've all heard over
- 13 the last 10 or 15 years about monetizing your IP assets,
- and so that word has gotten out.
- 15 So they want to partner with good partners,

- 1 Steve, I want to follow-up for just a minute
- 2 because this is such an interesting and I think
- 3 important area that we've been hearing about from a lot
- 4 of different angles, and this is our first time hearing
- 5 about it from the large company perspective.
- 6 When you're thinking of bringing in technology
- 7 from a start-up, how do you filter through the different
- 8 possibilities that are out there or identify a promising
- 9 technology? Are people bringing you a lot of offers and
- 10 how do you get through that?
- 11 MR. MILLER: It's a little bit of both, which is
- really great. Because of the connections we're able to
- make, both with the large companies and small companies
- 14 and individuals, people are now willing to bring things
- 15 to us as well as us going out and searching the
- 16 marketplace for those ideas that we think will work.
- 17 And by them bringing it to us it's often things
- 18 that we haven't thought of before. To give you an
- 19 example, Mr. Clean Magic Eraser which I hope everyone
- 20 has seen or used, was an idea that was in Japan that
- 21 someone found and then came to us and said, "Would you
- 22 think this is a good idea?" We were able to bring it
- 23 to market very quickly based on that.

- with Procter and Gamble technology and make this even
- 2 better for the consumer, and that's happening faster and
- 3 much more efficiently because they know we're willing to
- 4 partner and give them a win/win situation. They can own
- 5 some of the intellectual property or they can be
- 6 licensed out so they'll get revenue from us using their
- 7 technology.
- 8 MS. MICHEL: We've often heard from independent
- 9 inventors and start-ups that it can be very hard just to
- 10 get a foot in the door of the large company and partly
- 11 because of the large number of these offers that a big
- 12 company might get and how to think of it.
- Do you have any ideas or comments on that

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1 some of the other companies here is you change the
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- 2 culture from a not invented here culture where
- 3 everything has to come from your own laboratory, to boy,
- 4 there are some pretty smart people out there and they
- 5 have great ideas that they can bring to us, and when
- 6 that happens you make more and more connections and
- 7 those better ideas tend to flow in.
- 8 MS. MICHEL: Thank you.
- 9 MR. IRIZARRY: P&G's C&D program has received
- 10 some collaborations and we're aware of it and it's even
- got a web site I saw this morning, and I'm just
- wondering if the other companies are thinking about
- doing some of the same thing or similar thing or have
- 14 something in place already?
- 15 MR. GRISWOLD: 3M historically has operated with
- 16 outside ideas a lot. Most people would think that we
- don't because we tend to have a reputation for
- 18 substantial internal innovation but actually we have
- 19 that but we also -- that tends to be stimulated by these
- 20 outside ideas.
- 21 Actually many acquisitions that we have, when
- 22 they come into the company, they wind up stimulating
- 23 whole new areas and our researchers and connections that
- they wouldn't have before and that happens with
- 25 individual ideas that come in. We are a supplier to P&G

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1 and one of these companies that worked with P&G
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- 2 cooperatively, and it works well because we have certain
- 3 expertise, P&G does.
- We want to make sure that downstream we have an
- 5 ability to operate our business the way we need to
- 6 because we're using the technology broadly. P&G
- 7 wants to be able to operate effectively through that
- 8 cooperation, so it helps define the relationship.
- 9 The patent rights are very helpful in defining
- 10 who does what, how the cooperation works and organizing
- the whole function, so it's a really good way for
- companies to get together so that's what we've done.
- 13 MS. MICHEL: Carl, you also mentioned using
- 14 patents to facilitate.
- 15 MR. HORTON: Yeah. Along the connect and
- develop front, I would say we kind of -- we run the full
- 17 spectrum, from our more consumer driven businesses, a
- 18 little more commodity style. We tend to have a more
- 19 collaborative approach and we do some connect and
- 20 develop, not nearly the kind of success that P&G has
- 21 experienced.
- 22 On the other end of extreme you're talking about
- 23 jet engines, and not a lot of people tinker with them in
- their backyard so we don't get a lot of ideas or help in
- 25 that area, but I would say in the healthcare space we see a

- 1 fair amount of activity and it's largely the way that
- 2 model has evolved. We take in a fair amount of
- 3 technology in the life science space where people do go
- 4 out, and a fair amount of research is done in labs
- 5 all over the world.
- 6 And then with the equipment that we put in the
- 7 hospitals, we create some fairly sophisticated
- 8 equipment that university professors and doctors tinker
- 9 with to find better ways to use it. So they are the
- 10 ones that really put into practice and develop new
- 11 practices, new processes using that equipment that we
- then license back in, make it part of our standard
- offering and push it back out again so there's a fair
- amount of collaboration but it's with I would say a more
- 15 sophisticated base predominantly within the university
- 16 setting.

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      way we get access to resources overseas in most
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      countries of the world is by doing a venture of sorts
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      with a government or quasi-governmental entity, and the
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      way we get access to that is through three things.
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              We present ourselves as being more talented from
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      the standpoint of managing huge capital projects.
 7
      can bring the capital to those projects, but the third
      advantage we bring is technology, and the thing that
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 9
      makes ExxonMobil and some of the other majors a very
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      attractive partner in many parts of the world is that we
      can bring a packaged technology to find,
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12
      produce and deliver at low cost and environmentally safe
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     manner, resources that governments, acting on their own,
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      could not produce. They may have the money but they
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      don't have the expertise.
              So where do patents come in? Most of the
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      countries in which we operate do not have effective
      intellectual property systems, and that is a fact of
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19
      life. If you're going to operate in parts of the world,
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      we don't need to name countries, you are not going to be
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      able to protect your intellectual property there, but I
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To the extent that I disclose technology in some parts of the world that necessarily will come into the

must be able to protect it in the United States.

22

23

must.

- 1 public domain, I need to be able to protect it in the
- 2 United States, in Europe, in Canada, in Japan and in
- 3 Korea. To the extent we have an effective patent system
- 4 that gives me, ExxonMobil, a stronger tool to get access
- 5 to these resources that our countries needs.
- 6 MR. IRIZARRY: Why do you say that you must
- 7 protect them in the United States if they're not going
- 8 to be effective in using them in other countries?
- 9 MR. PHILLIPS: Well, the United States of course
- 10 itself is a very large market for hydrocarbons, and to
- 11 the extent that people are actually producing
- 12 hydrocarbons into the United States or importing into
- the United States, I can use the U.S. patent system to
- 14 protect our position, so it creates a greater incentive
- 15 to me than would otherwise exist to invest money in R&D,
- 16 to protect technology at least in those parts of the
- world with an effective intellectual property system.
- 18 Imagine a world in which the United States did
- 19 not have an effective intellectual property system.
- 20 What advantage is there to ExxonMobil to investing a
- 21 billion dollars a year, developing new technology for
- finding oil inexpensively if that then can be disclosed
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- in. What about licensing out technology? Is that an
- 2 important mechanism for partnering or just for bringing
- 3 in licensing revenues to your company, and what are some
- 4 of the concerns that you face in licensing out your
- 5 company's own technology?
- 6 MR. GRISWOLD: I can start that. We didn't
- 7 license out that much, 3M didn't for many years but in
- 8 the last I would say eight or so years we've done a lot
- 9 more of it. The benefit has been that certainly
- 10 we've put to work investments that we made in the past
- and they converted into intellectual property. So that
- was valuable. We got a return on that so that was very
- 13 good.

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abrasives that I said we used for dental filling
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- 2 materials somewhere else. We don't know. It may wind
- 3 up over in another area so you're always cautious about
- 4 licensing it or working with somebody that you're
- 5 licensing it out in this area when we might want to put
- 6 it to work over here so you have to be careful, but it's
- 7 been very helpful, very good for us to do more licensing
- 8 out in our revenue, and that area has jumped
- 9 dramatically.
- 10 MS. MICHEL: Carl?
- 11 MR. HORTON: Yeah. I would say we license out
- and not infrequently, but I think if you were to look at
- our total patent portfolio I think we have about 18,000
- 14 active patents. There are far more that are licensed to
- 15 competitors and business partners than just simply
- 16 licensed out for cash.
- 17 That is a primary source of establishing some of
- 18 those relationships. As Steve mentioned earlier without
- 19 the clear parameters that the intellectual property
- 20 gives you, it's hard to enter into those transactions to
- 21 know that I bring X, Steve brings Y, and together we can
- 22 go and venture in a new place, knowing that I have a
- certain amount of protection to cover what's important
- 24 to me, and he has adequate protection to cover what's
- 25 important to him.

- 1 That's the kind of certainty that we need to
- 2 enter into that relationship. Absent that, having those
- 3 clear boundaries and parameters defining and giving us
- 4 some degree of control over our future, because I think

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1 MS. STEC: Ford does substantial licensing-out,
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- 2 although we don't call it licensing-out. We call it
- 3 technology commercialization because in our view that's
- 4 what it is. It's more than just bare patent licenses.
- 5 It's bringing technologies that we've developed to
- 6 others for various reasons. One obviously is for
- 7 income.
- 8 The other is we've been able to do this kind of
- 9 thing to improve relationships. We have a new program
- 10 with minority suppliers where we try to help them by
- 11 making some of our patents and our intellectual property
- 12 available to them, and another way we reap benefits from
- that is through improvements that others -- that
- licensees might make to a technology.
- 15 For instance, we have some basic night vision
- 16 technology. Night vision is something that just
- 17 hasn't quite made it into vehicles. By licensing it
- 18 out, we take rights and improvements back so that
- 19 applications for night vision, which might be security
- 20 systems or those kinds of things might foster
- 21 improvements that ultimately we can use someday if they
- 22 end up implemented in vehicles.
- MS. MICHEL: Yes. Richard.
- MR. PHILLIPS: Folks talk frequently about
- 25 monetizing existing intellectual property. It's

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1 important to remember that the IP system promotes not
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- only transferring technology you've developed for your
- 3 own use, but also many companies, including ExxonMobil,
- 4 have businesses that themselves are developing and
- 5 licensing technology, not necessarily technology that
- 6 you use commercially.
- 7 Like ExxonMobil, many of our competitors developed
- 8 centers of expertise that become very, very powerful
- 9 research engines. We run that engine, develop that
- technology, license that technology to other companies,
- 11 some of our competitors, even where we don't use the
- 12 technology ourselves. We invest money. We transfer
- the technology to somebody to help make them more
- 14 profitable. We get some cash back. Everybody benefits.
- 15 The consumers get better products.
- 16 So it's not just monetizing existing
- intellectual property. It's also the patent system a
- 18 driver for developing technology even where a company
- 19 may not use it itself.
- MS. MICHEL: In that scenario, when the initial
- 21 thinking is done about going down a particular R&D path,
- 22 is it part of the thinking from the beginning we may
- 23 license this out and not develop it ourselves or is the
- thinking in the beginning this is something we might
- 25 want to do but then you get farther down the line and

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1 for whatever reason decide to license it out?
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- 2 MR. PHILLIPS: In our case, we never set out to
- 3 create technology that we don't intend to use.
- 4 MS. MICHEL: Okay.
- 5 MR. PHILLIPS: But often, we'll create
- 6 technology that for whatever reason we decide we're not
- 7 as well positioned as a competitor may be to use.
- 8 Once we've developed it, we say "If we invest another
- 9 \$100 million and develop this technology, we
- 10 can make \$200 million, and so we get a group of
- 11 scientists with great expertise involving technology
- 12 that's used by other companies but not by ExxonMobil but
- we're making money on it.
- MS. MICHEL: Okay. Carl?
- 15 MR. HORTON: I was going to say I would add to
- that the other phenomena that takes place very
- frequently is we're faced with a problem. We don't
- 18 necessarily know what the winning solution will be so we
- 19 invest in multiple different R&D efforts not knowing
- 20 which will be superior at the end of the day but you
- 21 have to see them to a certain degree before you can make
- 22 that determination.
- 23 Ultimately, that leaves you with three or
- four or five or six areas of technology that weren't
- 25 commercialized because you picked the one that was best

- and went forward with it, but you're left with an
- 2 investment, a sunk investment into R&D and those other
- 3 areas so naturally you look for ways to find
- 4 applications where it could be used or license it out to
- 5 others in other industries or even within your own
- 6 industry.
- 7 MS. MICHEL: Okay.
- 8 MR. GRISWOLD: I'll make one point on that.
- 9 MS. MICHEL: Yes, please.
- 10 MR. GRISWOLD: When you get done with
- all this R&D we're talking about, you have notebook
- 12 records or you have some record of it. But, really, when
- 13 it gets down to it, the thing that turns that into
- 14 a return is the patent rights. If you don't have
- 15 the patent rights, you have notebook records, this
- information in people's heads but you don't have assets
- to put the work and define what you've done, and it's
- 18 not easily transferable.
- 19 There is trade secret you can transfer and do
- 20 that sort of thing but the patent rights are really the
- 21 key ones.
- 22 MS. MICHEL: Okay. How does what we've been

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1 your own technology developed internally? Is that
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- 2 something also that's important to your company,
- 3 maintaining exclusivity and how do you use your patents
- 4 in that context? Is it important to be clear that
- 5 you're willing to go to court if necessary? Gary?
- 6 MR. GRISWOLD: Absolutely. If you're not
- 7 willing to enforce your patents, then over time you have
- 8 a reputation that people get closer and closer to your
- 9 inventions and pretty soon they're -- what you've
- developed is not valued by others, so it's important to
- 11 enforce your rights, no question about it.
- 12 Also if you want to -- if you are, as some of
- 13 the others have talked about, willing to license those
- 14 rights and different uses, it's also important for
- 15 people to understand that, so that they know they can
- 16 collaborate and you can actually get the leverage of
- other companies putting to work your technology in areas
- 18 that you wouldn't put it to work in, but the willingness
- 19 to enforce is important.
- 20 MS. MICHEL: Okay. Defensive use of patents.
- 21 We heard earlier today about the IT industry, maybe
- 22 perhaps buying or developing patents to be able to use a
- 23 portfolio defensively if someone else charges that
- 24 company with patent infringement. Does that happen?
- Does that dynamic play out at all in your companies and

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in industries, that you acquire patents thinking --
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- 2 either through internal development or purchase with the
- 3 thought I want this just in case someone comes after me?
- 4 I'm trying to understand if this is an IT only
- 5 phenomena.
- 6 MR. GRISWOLD: I would say we tend to have more
- 7 of -- 3M has more of -- I would say more of an
- 8 optimistic look. We tend to think in terms of "What can
- 9 this do for us business wise?" We have acquired
- 10 patents and technology that have added to our -- helped
- other investment in developing the technology, so when
- we get downstream we have a better scope of protection
- for that technology against other people that would
- 14 infringe it.
- 15 So that would be more of a view of -- more of a
- 16 positive view of the situation than putting together a
- 17 portfolio for use as you describe.
- MS. MICHEL: Okay.
- 19 MR. MILLER: I think the thing that we tend to
- 20 do and a lot of other companies tend to do is they
- 21 acquire patents to get freedom to practice or freedom to
- 22 market. They don't acquire them to look for trading in
- the future. When we go out and we license or we
- 24 purchase rights, it's because we think we're going to
- 25 market something in the future that may be blocked by

- 1 that patent or that we may be innovating into that
- 2 arena. Now, sometimes we don't, and then we have that
- 3 asset and we have to determine what we're going to do
- 4 with it, but I don't think that strictly speaking we
- 5 would acquire assets just to have them for trading
- 6 purposes.
- 7 MS. MICHEL: Carl?
- 8 MR. HORTON: I guess the only two areas that I
- 9 can think of where we don't do exactly what Steve
- 10 described, which I think is the vast majority of why we
- 11 would license in or require patents is for our own
- 12 access to market. In the life science business we have
- acted as an aggregator of types for some patents that we
- 14 didn't necessarily practice but that made it easier for
- 15 us to get the whole package of technology to market
- 16 because part of it involved licensing the underlying
- technology, and people weren't willing to do that if
- 18 they had to license it from 10, 12, 15 different
- 19 entities.
- 20 By aggregating it ourselves, we essentially

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1 market is where you're going down multiple paths
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- 2 simultaneously. We may license in for several different
- 3 patents, again not knowing which one will play out in
- 4 the long run. We firmly believe that the most cost
- 5 efficient way to deal with other's patents is up-front,
- 6 identify them early, license them in where you can't
- 7 design around them and make them part of your
- 8 commercialization path knowing at times you're going to
- 9 license in more than you need.
- 10 But if it's done primarily on a royalty basis
- and you don't commercialize it, you're only out the
- 12 up-front money anyway.
- MS. MICHEL: Okay. What are your abilities to
- do that, to identify the patents up-front and bring them
- 15 in? How confident can you be that you've identified all
- 16 the patents that you need, and if you can't be what are
- the problems you face in doing that?
- 18 MR. HORTON: We've had reasonably good success I
- 19 would say. There's few of the litigations that we can
- 20 point to where we didn't identify the patents and maybe
- 21 had some disagreement over whether or not they should
- 22 have been entitled to the patent, the scope of the
- 23 patents. That happens fairly frequently, but very few
- times where we didn't see the possibility, and again
- 25 those breakdown into two camps: One, where we think

- 1 that the patent holder is straining the interpretation of
- 2 the claims well beyond reason so we didn't even think it
- 3 was an issue to begin with, but secondly, occasionally
- 4 you don't pick up everything.
- 5 And I think there is some minor differences
- 6 between the types of technology. The chemistry arts are
- 7 being probably the simplest because the convention is so
- 8 clean and consistent throughout the industry so they're
- 9 easier to find the right patents and the total number is
- 10 probably a little lower.
- MS. MICHEL: By that when you say the convention
- is consiMReMea beabseanothettershinkadogy wmithohoghe
- industry?

- MR. HORTON: The terminology.
- 15 MS. MICHEL: So you can tell bwech0 0.00000 1.00000 0.00a

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1 lot more to sort through. Again we try to automate as
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- 2 much as that as possible but sooner or later you just
- 3 have to plow through one at a time and read the claims
- 4 and develop that certainty.
- In the software arts, the same kind of thing, the
- 6 number is higher but people tend to call things very
- 7 differently. Each of us could describe it in almost a
- 8 different way, and so the automated portion of finding
- 9 the right prior art is a little more tricky, a little
- 10 more challenging.
- 11 MS. MICHEL: All right.
- MR. IRIZARRY: In a company such as GE which is
- 13 so diversified, in applying for a
- 14 patent, in drafting the patent application, do you use
- 15 different criteria that reflects the different industries
- 16 that you're going to be using them in, different
- 17 criteria for IT technology than from life sciences
- 18 technology or is it just one big patent application
- 19 pool?
- 20 MR. HORTON: We use the same generic criteria.
- 21 How they play out within a given business or P&L
- 22 may differ and the amount that they're willing to invest
- 23 in intellectual property based on the potential return
- 24 may be lower depending on the power, so to speak, that the
- 25 patent would enable them over the long-term. So, we see

- differences in the amount they invest in IP
- 2 but we use the same general criteria to determine

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1 parametritis, parameters that are not known and
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- 2 recognized in the industry. They'll create a term, and
- 3 they'll say, we claim a polymer, we claim an
- 4 oxyl-alcohol, we claim a method of seismic stratigraphy
- 5 that has some property that is not recognized in
- 6 science, so you're put to a cruel dilemma. Do you try
- 7 and go in and understand that property?
- 8 It may be very expensive to determine just what
- 9 the patent covers. In Europe, and many other countries,
- 10 there are pretty good systems to deal with that, like the
- 11 patent opposition system. In the United States, I do not
- have an effective tool for testing the scope against the
- validity of a patent, and that is a fundamental failing
- in my company's judgment of the U.S. patent system, no
- 15 good mechanism short of litigation, the courthouse
- 16 door, for testing just what a patent really covers.
- MS. MICHEL: Would there be any other ways to
- 18 address that problem within the PTO, within the
- 19 examination process?
- MR. PHILLIPS: Well, reexamination of course has
- 21 been in existence for a long time, and generally we feel
- 22 it's not nearly as level a playing field as the
- 23 opposition system that many other patent systems have,
- so we would favor a single phase opposition system,
- 25 somewhat along the lines of what we have in Europe.

- 1 MS. MICHEL: Jennifer?
- 2 MS. STEC: We have almost two distinct worlds in
- 3 that regard. One is the strictly automotive vehicle
- 4 world in which our business works. The other world is

- 1 complicated for us to get suppliers involved and get the
- 2 real parties involved. I think their damages model
- 3 usually starts with a theory that goes towards some
- 4 percentage of the entire price of the vehicle, which is
- 5 obviously very expensive.
- 6 MR. IRIZARRY: Do you ask for indemnification
- 7 from your suppliers in the case that there is a patent
- 8 infringement suit, that they indemnify you?
- 9 MS. STEC: We do.
- 10 MR. IRIZARRY: How does that work into this
- 11 process when you say that Ford ends up being the
- 12 defendant?
- MS. STEC: Typically pretty good but everybody
- is always reluctant. There are assertions of
- infringement that the supplier might feel are unfounded,
- and so therefore, feel like we don't infringe. "We don't

- 1 MS. MICHEL: Will Ford and your supplier be in
- 2 the same lawsuit then of multiple defendants? Will they
- 3 go for both places in the distribution chain?
- 4 MS. STEC: No.
- 5 MS. MICHEL: You can't do that.
- 6 MS. STEC: And they don't. They don't want the
- 7 supplier in. They want us in, and typically the
- 8 supplier to the extent that they indemnify us or pay for
- 9 our defense, will defend as Ford.
- 10 MS. MICHEL: Yes.
- 11 MS. STEC: Rather than jump in themselves as a
- 12 defendant or intervene.

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1 safety systems, and the plaintiffs view is that we very
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- 2 actively market safety systems, and it's a bigger factor
- 3 in the sale of an automobile than just some small
- 4 percentage of the price for that little
- 5 accelerometer component. It's a struggle.
- 6 MS. MICHEL: Carl?
- 7 MR. HORTON: I would say on the valuation
- 8 question because it is so tricky, you could put ten
- 9 patent attorneys in a room and you could get valuation
- 10 differentials that would be several orders of magnitude
- different, and it's partly because they're context
- 12 specifically. The value of a patent is truly context
- 13 specific.
- It may be worth X in one environment, one
- 15 transaction. It may be worth ten X or a hundred X in a
- 16 slightly different one, and I'll give you a perfect case
- in point.
- 18 We had a situation with a business partner of
- 19 ours. We happened to hold IP
- 20 that was instrumental in their space because we choose
- in the end not to do commercialize that because it wasn't
- 22 core to our business. They were building a business
- 23 model on it, they were new to the space so we allowed
- them to do it and we offered them a license under four
- 25 patents for a particular value.

- 1 They came back with something one order of
- 2 magnitude less because they just couldn't justify and we
- 3 tried to explain why we thought it was worthwhile and
- 4 part of that discussion was, look, you've got a
- 5 competitor in this space that has better IP than you,
- 6 it's very likely that they will sue you, but we couldn't
- 7 reach agreement.
- 8 Six months later they were sued by their
- 9 competitor in the way that we had anticipated. They
- 10 came back and we coit2000 TD( 9 competitor in the way

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1 account on how many times we ship a product with that
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- 2 feature in it? And the royalty percentage is
- 3 drastically different but the total package price is
- 4 about the same, but we do what is most economically
- 5 feasible, easiest to audit, easiest to track and
- 6 account.
- 7 MS. MICHEL: Do you determine that base first
- 8 and then figure the royalty off of that?
- 9 MR. HORTON: We typically decide what the value
- 10 is to the parties. If we disagree, which is
- 11 typically the case, on the value, we'll talk about a
- 12 royalty based on some structure that we agree upon.
- 13 Again whatever is easiest to account for we'll base it
- off of that, and then we'll take one step further and
- 15 say -- usually they believe it's more valuable because
- they think it will drive our sales by a 50 percent
- 17 increase.
- 18 If we think we're going to see a 5 percent increase
- 19 then we build that into the royalty structure. If it's
- 20 a 5 percent increase as we think, the royalty rate is X.
- 21 If it's 50 percent like you think then it's a sliding
- 22 scale or some difference in royalty, so that we can
- 23 account for the difference in what we think the actual
- value is, and then we let the market decide.
- The market will tell us what it's worth. They

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1 have to place some value on our ability to try to
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- 2 maximize whatever it is we're trying to take to market
- 3 but otherwise it's the market that makes the final
- 4 decision.
- 5 MS. MICHEL: Gary?
- 6 MR. GRISWOLD: One of the things that I think
- 7 gets lost sometimes in these discussion about damages or
- 8 licenses -- at the end of the day we're looking at the
- 9 impact on a P&L, typically, of an operating business unit,
- 10 and if you're looking for a forward reaching license,
- 11 you're taking an exclusive license and you're going to
- 12 add this product to your product line, a heavy driver on
- that valuation is certainly what's the value of it in the
- 14 marketplace.
- That's what you're looking at but in the end,
- the data converts into a number and a cost in your P&L
- and that has to fit into your whole business model of
- 18 how you operate so that's an important thing
- 19 particularly as you're thinking about bringing in
- 20 technology that you're going to take a license under and
- 21 then use, put to work and use that advantage in your
- 22 product.
- 23 So, I think, sometimes we lose that perspective
- 24 when we're talking about as patent attorneys as opposed
- 25 to business people.

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1 that little piece of it that went into the product, but
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- 2 if it's 1 percent of a hundred dollars or 10 percent of
- 3 a dollar, it's still a dollar, no matter what increment
- 4 I pay on it, so the royalty and the base are fairly
- 5 flexible because at the end of the day what you want to
- 6 look at is what is the value that you're getting and
- 7 what is the consumer ultimately going to be wanting to
- 8 pay to get that feature.
- 9 MS. MICHEL: Do you agree with Carl then that
- 10 the base is determined by the convenience of the
- 11 accounting?
- MR. MILLER: Normally, because it's much
- easier -- in our case we base it on cases is what we
- 14 call it in our business, and a case may be let's say 144
- 15 diapers, and so rather than do a per diaper, my
- 16 accounting people can do it much better on a case basis,
- and so you may set the royalty on that. You may set the
- 18 royalty on some other base.
- 19 I don't think there's good understanding out
- 20 there right now or on the Hill that the base and the
- 21 royalty rate are the flexible numbers. It's what's the
- 22 economic value that the invention brings.
- MR. HORTON: Absolutely.
- MR. PHILLIPS: Absolutely.
- MS. MICHEL: Everyone is agreeing. Richard is

- 1 nodding. Jennifer is nodding. Okay. Thank you.
- 2 That's very helpful.

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1 that have always said, well, look I have a patent that
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- 2 covers this and you owe me a lot of money, so this is
- 3 not a new problem I think to any of us. It's problems
- 4 that we've dealt with for years. The difference is
- 5 that we tend to invest early on in the process and we'll
- 6 try to know all of those patents before we even go to
- 7 market and we'll either clear them before the product
- 8 hits the marketplace or we'll have designed around it.
- 9 So there's typically not that problem or we'll
- 10 know that the patent's invalid because I think most of
- 11 our companies have the policy that we will not infringe
- 12 another's valid patent, and so we're willing to invest
- up-front to make sure that doesn't happen.
- Now, there are some that may get through that we
- don't know about or they're straining the reading about
- 16 what their patent could potentially cover, but we've
- dealt with that forever, and what we have done is
- 18 usually we've gone to court and we've litigated those
- 19 issues because we either know the patent's invalid or
- we're not infringing.
- 21 So I really -- maybe the rest of the panelist
- 22 can speak to that but I don't see this as a major new
- 23 revelation to our industry.
- 24 MS. MICHEL: You've said you've seen it forever.
- 25 Has the frequency at which you've seen it increased at

- 1 all in the past ten years? Five years?
- 2 MR. MILLER: At least from my perspective I
- 3 haven't seen an increase. I don't know about anyone
- 4 else.
- 5 MS. MICHEL: Jennifer?
- 6 MS. STEC: Significantly for Ford. At any one
- 7 time we used to have two lawsuits, and now it's a dozen
- 8 or more of non-practicing entity suits.
- 9 MS. MICHEL: Is the increase almost solely
- 10 attributed to non-practicing entities or is there -
- MS. STEC: Yes.
- MR. IRIZARRY: Do yogBTIiink0 1.salMS. STEC: Yes.

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1 they're in the same lawsuits that we are. With respect
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- 2 to the other automotive companies we've managed
- 3 to get along. It's rare that one vehicle manufacturer
- 4 sues another. We've found a way to license. It's not
- 5 always perfect, not always easy. There are always issues
- 6 on value and that kind of thing, but pretty much in the
- 7 automotive OEM industry there aren't many lawsuits in
- 8 between companies.
- 9 MS. MICHEL: Carl?
- 10 MR. HORTON: I would say if I took a long
- 11 look over a ten year horizon the frequency has probably
- gone up over ten years but what we've seen more of I
- think than the change in the frequency is the parties
- doing it. What used to be a lot of contingency fee
- 15 cases eight years ago may now be traditional troll-like
- patent holding entities today, but the fact of the
- matter is for us we're a big company. We've always been
- 18 a big company so we're always a big target.
- 19 That's just the way it's played out, so we
- 20 haven't seen a dramatic rise in frequency but the
- 21 composition of some of those cases has changed.
- 22 MS. MICHEL: Okay. How has GE responded or any
- 23 of your companies responded if at all to that increase?
- 24 MR. HORTON: Again we've run the economics.
- We've lost some big cases. So it's not like we're

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immune from the problem for sure, but about ten years
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- 2 ago when we had a big case, the Fonar litigation, it
- 3 cost us over \$100 million. We went back and we
- 4 structurally looked at the whole of the system and the
- 5 issue, and we broke it down and what we do today that is
- 6 the biggest difference is our clearing processes are
- 7 three times better than they were ten years ago.
- 8 We weren't good enough. We weren't tracking
- 9 them well enough. We weren't investing enough on the
- front end, and so we redesigned our systems and
- 11 redeployed assets to get that front end right. We look
- 12 at a lot more patents. We look at them more carefully.
- 13 We oppose more patents. We watch them from cradle to
- 14 grave.
- 15 MS. MICHEL: You oppose patents. How do you do
- 16 that?
- 17 MR. HORTON: In Europe we keep a good eye on
- 18 them. We'll watch them in the U.S. We'll get our
- 19 opinions. We'll do our due diligence. The best
- 20 avenue for us is to design around. It's almost always
- 21 the cheapest. We can't live with the uncertainty.
- 22 We'll either design around it as a first option. If the
- 23 price point is too high we'll try to license it in and
- 24 usually there's some kind of parallel structure going on
- for both of those. Until we know the price, we don't

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1 know whether it's cheaper to design around or license
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- 2 in.
- If the price is right, we'll license it in and
- 4 take that path. If we don't, then we'll design around
- 5 but if we can't see a good design-around, then we almost
- 6 have no choice but to license it. We'll put structures
- 7 in place. If there's any degree of uncertainty around
- 8 the patent, we'll even agree to license it subject to
- 9 some future resolution. There may be a mediation around
- 10 the scope of the claims or an arbitration from some
- 11 third-party arbitrator to say what the scope
- 12 is and the
- 13 value may change on the outcome of that.
- If it's a pending application, if it's the outcome
- of opposition in Europe, what will that determine,
- 16 so there's a lot of ways to get at that uncertainty
- 17 that's inherent in that dynamic, but we've just found it
- 18 so much better to deal with it on the front end, not the
- 19 back end.
- MS. MICHEL: And the design-around cost, is that
- 21 something of a cap on what you're willing to pay?
- 22 MR. HORTON: Absolutely. You get back to
- 23 the economic value question, what is it worth? If I can
- 24 design for a penny less I'm going to design around, it's
- 25 that simple.

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1 precedent that we won't be shaken down by a really weak
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- 2 patent or somebody who thinks they can just hustle up a
- 3 quick settlement out of us.
- 4 MR. GRISWOLD: Going back to your first question
- 5 though on this, there have historically been people that
- 6 have developed patents that they don't put to use or
- 7 that they don't transfer technology and there's an
- 8 infringement question, and these patents -- the
- 9 secondary market is providing an opportunity for people
- 10 to get value, for independent inventors to get
- 11 value from their work.
- 12 So there's another piece to this and there was a
- 13 struggle -- all the companies sitting around here have been
- 14 around for a 100-150 years or so, and we
- 15 were just talking about that the other day when we were
- 16 talking about this. But, anyway we're long in the tooth.
- 17 We have -- over time, people have come to us
- 18 and asked us to take licenses for one reason or another.
- 19 This provides a basis to do that. Actually, if it's
- 20 handled in an appropriate matter, it can be effective
- 21 way to handle rights like this.
- MS. MICHEL: Steve?
- 23 MR. MILLER: I'll just add two points because I
- think it's on point where we want to go. I think all of
- us or most of us feel that an opposition system that we

- 1 could oppose patents early in the Patent Office would
- 2 help get rid of some of that problem, and then if we
- 3 could strengthen the examiner's ability to have the time
- 4 and the tools to do a better examination job, that we're
- 5 not going to see some of these poor patents that are
- 6 coming out of the Patent Office.
- 7 So if there are ways that we can -- this is one
- 8 of my big issues -- fully fund the Patent Office so they
- 9 keep their money and we get a good examination and
- then we have a quick opposition procedure in the first
- 11 12 months, a lot of these problems will be solved.
- MR. GRISWOLD: I would add one point to that.

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1 problems that people talked about today.
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- 2 MS. MICHEL: Carl, do you want to add to that?
- 3 MR. HORTON: Yeah, the only thing I would add to
- 4 that is the 18 month publication. I think it would be
- 5 worthwhile to know because occasionally there are some
- 6 things that we don't see. We tend to pick it up later
- 7 than we would like, and that always causes trouble,
- 8 especially where our cycle times are more compressed.
- 9 I mean, for the longer cycle businesses like
- 10 aircraft engines and turbines, trust me, we've seen them
- 11 plenty by the time that the product hits the street, but
- some of these others you have to see them promptly and
- if they can be kept secret, then that makes that job a
- 14 little more difficult, so having that capability would
- 15 be very helpful.
- 16 MR. IRIZARRY: You know it's been said in other
- forums that companies, at least at some level, will not
- 18 look at competitor's patents because they were concerned
- 19 with willfulness and even though that has changed, the
- 20 law has changed a bit there, I take it you've been doing
- 21 this for a long time and this was not a concern of
- 22 companies such as yours?
- MR. GRISWOLD: No.
- MR. MILLER: No.
- MR. HORTON: No.

2 MR. GRISWOLD: That's almost an offensive 3 comment in my respectful opinion, because the patent

So you would start a company --

MR. IRIZARRY:

- 4 system is about incenting innovation, looking at the
- 5 technology that's developed, and then to be concerned
- 6 that you have an infringement problem and you're not
- 7 willing to look at what other people are doing and the
- 8 patents out there? How can you -- I don't know how you
- 9 can defend that.

1

- 10 Of course I come from a history of clearance.
- 11 We always clear, and we look when we are coming up with
- 12 a new product, but also you get ideas to figure out your

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1 incent American corporations to spend more money on
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- 2 research and development, and ultimately that is where
- 3 we want to go.
- 4 The patents are just a tool. What you want is
- 5 research and development for better healthcare products,
- 6 better turbine engines, better adhesives and sand paper,
- 7 for better gasoline and petrochemicals and better and
- 8 safer automobiles.
- 9 MR. GRISWOLD: How about Tide?
- 10 MR. PHILLIPS: Tide, absolutely.
- 11 MS. MICHEL: I'm for that.
- MR. MILLER: If you don't read your competitor's
- patents first of all, you're not up on the latest
- 14 technological advances, which I can't believe that a
- 15 competitor doesn't want to know what their other folks
- 16 are doing, plus it incentivizes you to make the next
- 17 breakthrough beyond that and to worry about willfulness,
- 18 by looking at them I actually avoid willfulness because
- 19 I have an opinion, and I know whether the patent's
- 20 valid, and then I either design around it or I try to
- 21 license it in.
- 22 So why would I ever be held to be willful when I
- 23 know about the patent and I've dealt with it? So the
- 24 whole statement to me, at least, doesn't ring true. It's
- burying your head in the sand to try to make a problem

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1 go away.
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- 2 MR. HORTON: I'll add one caveat to that. Before
- 3 Seagate, I had concerns over willfulness, not because we
- 4 weren't being meticulous in looking at the patents but
- 5 because we're such a big organization that my fear was
- 6 that a patent that was being handled by one law firm in
- 7 city one and a patent that was being handled by another
- 8 law firm in city Y that were on similar technologies and
- 9 there was no communication but because they both said GE
- 10 at the top, there's some expectation that I knew
- 11 everything that was going on in those patents.
- MS. MICHEL: Personally.
- 13 MR. HORTON: That's ludicrous. Inequitable
- 14 conduct still does cause me heartburn and we had to look
- 15 at these issues. The more rigorous we try to be on the
- 16 clearance side, obviously that's the push back we get.
- 17 Every time we have our processes and our tools scrubbed
- 18 by the litigators, the outside litigators, they come
- 19 back and say, oh, you're creating the potential for this
- 20 risk on the other side, but on balance there's no doubt
- 21 that the right thing to do -- at least we've made the
- 22 call the right thing to do is be more rigorous on the
- 23 clearance.
- 24 MS. MICHEL: All right. Going back to the 18
- 25 month publication, you said that helps but you don't yet

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1 know the claims when you see that published patent
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- 2 application.
- 3 What's your ability to try to predict what is
- 4 going to come out of that application and how it might
- 5 affect your products and your need for clearance?
- 6 MR. HORTON: It's decent. There's always some
- 7 degree of uncertainty, but they do have parameters from
- 8 the prior art, and we can guess those just as well as
- 9 the company who filed the patent application. The
- 10 drafter had to do through that same exercise.
- 11 We put our teams to work doing the same thing
- 12 and if we can get a design-around that is clear enough,
- far enough away from what would be an acceptable
- parameter, then we go forward, but otherwise we watch
- 15 it, we oppose it where we think it's gone too far or
- we may even license it under some conditions.
- MS. MICHEL: Okay.
- 18 MR. HORTON: Based on what might take place down
- 19 the road.
- 20 MS. MICHEL: Richard, you were nodding.
- 21 MR. PHILLIPS: I think Jennifer had her card up.
- 22 MS. STEC: But you're being your own examiner in
- 23 that case so you're really not getting any
- 24 predictability out of the Patent Office. You have to
- 25 figure it out.

- 1 MR. HORTON: You have to do your own --
- MS. STEC: That patent has to sit on top of your
- 3 desk for awhile.
- 4 MR. MILLER: Private PAIR and with other tools
- 5 that we've got we know now exactly where that is in the
- 6 Patent Office, what stage and we can follow it much
- 7 easier because it's an open process, so we kind of know
- 8 how things are happening, where everything else used to
- 9 happen in secret and we would have no clue.
- 10 MS. MICHEL: Jennifer, I would think in an
- industry that's combining components from different
- 12 suppliers that aren't part of your core technology,
- that it is a lot tougher though to keep an eye on pending
- 14 applications that don't pertain to your core technology
- and really pertain to the technology of a competitor.
- 16 MS. STEC: We don't so much. We rely on our
- 17 suppliers to do that and sell us products that are free
- 18 from infringement.
- 19 MS. MICHEL: Okay. Richard, you were nodding.
- 20 Do you follow the application in the same way?
- 21 MR. PHILLIPS: I'm very much in accord with the
- 2000 cET1.0sS: I'm very much in accord with the

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1 you, we do identify it and track it and it is our job to
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- 2 predict what is the likely coverage.
- 3 Sometimes our prediction is this looks like it
- 4 could be a problem for a program we've got in place, and
- 5 we either reevaluate the program or sometimes we'll go
- 6 and take a licensing to a pending patent just to
- 7 eliminate the risk. Often, we can say there is no
- 8 way you can get a patent from this spec that will
- 9 simultaneously be valid and cover what we're doing.
- 10 And so it's not a real fun job to do but it's a
- very important part of our job and the 18 month
- 12 publication is truly critical to that. I do worry
- about those applications filed in the U.S. only, where I
- don't get that opportunity to see what may be pending out
- there for three or five or seven years.
- 16 Those represent a real threat to expensive
- 17 R&D, and each year I have to go on a team to justify how
- 18 much R&D we're spending, and to the extent I can make
- 19 the case that R&D is bringing a return on Exxon's
- investment, I'm going to get money. To the extent that
- 21 there's uncertainty, unpredictability, risk they're going
- 22 to spend less money on R&D.
- 23 MR. GRISWOLD: Suzanne, one other point on this
- is that many companies require that their R&D people
- follow the art very carefully because they don't want

- 1 them reinventing things. There was a study done -- I
- 2 haven't looked at this for awhile, but there was a study
- 3 that was done in Europe that at least 40 percent of the
- 4 R&D that was done over there was just a repeat of

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Well, I think two things you worry
 1
              MR. MILLER:
 2
              One, is your reputation because the first time
 3
     you take advantage of an individual or a small inventor
 4
      or university, word is going to get around very quickly
 5
      that they will not want to deal with you again because
 6
     you're going to take advantage of them.
 7
              So you make sure, and what we try to do is get a
      win/win because when we create a partnership with a
 8
      small individual that leads to another individual
 9
      wanting to come to us that leads to another group so
10
      it's all these networks of collaborative things so you
11
12
      treat people right and they want to come.
              As far as not knowing what the terms are, I
13
14
      think it would be devastating to the industry to have to
15
     publish what our licensing terms are. There are many
      times where I know my company is looking at a brand new
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17
     product line or a product area and to then have to
     publicly state that we're interested in a technology for
18
19
      this amount of money not only gives our competitors a
20
      competitive advantage that they shouldn't have but it
21
      really hurts I think the process because people may not
22
      be as open in their discussions.
              I think generally people know again what the
23
24
      economic value of things that they're going to get from
      their inventions, and if you don't, you structure the
25
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1 done.
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2 So they're pretty forthcoming and then a
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- 3 sophisticated negotiation almost always has a most
- 4 favored nations clause that kind of brings everyone down
- 5 to roughly the same place. Whether I see those terms or
- 6 not, I know that a third-party can intervene and take a
- 7 look, and we have some degree of comfort that we're
- 8 paying what everybody else is paying.
- 9 MS. MICHEL: Okay.
- 10 MS. STEC: Being greedy is a double edge sword
- 11 because that can come back to bite you in litigation if
- 12 you're sued, if you are commanding a high royalty on
- something and you get sued on the same product.
- 14 MS. MICHEL: I see. Okay. Very good. The
- 15 recent changes in the patent system through the court
- 16 cases such as KSR, MedImmune and Seagate have been
- discussed somewhat as weakening patents. Is that your
- 18 view of those cases or any one of those cases, how have
- 19 they impacted your ability to use patents to both
- 20 incentivizes technology, transfer technology and all of
- 21 that?
- 22 MR. GRISWOLD: I'll make a quick comment on
- 23 MedImmune. I think it's important that people when
- they're negotiating licenses be able to do that in some
- 25 comfort zone, and so if people had to work out

- 1 arrangements as it did before and they have to now so we
- 2 don't have people suing each other as the discussions go
- 3 forward, so that's put more pressure on that dynamic and
- 4 so I think that's just one example.
- 5 Your overall comment, have these cases weakened
- 6 the patent system or taken away some of the value? I
- 7 think they have. They've all chipped at it one way or
- 8 the other. It's moved the balance away from the patent
- 9 owner to the infringer unfortunately.
- 10 MS. MICHEL: Okay. Carl?
- 11 MR. HORTON: We've had discussions with numerous

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1 MS. MICHEL: It is.
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- 2 MR. HORTON: On balance we think we do real
- 3 technology. That's why we invest \$7 billion a
- 4 year to do real technology, solve real problems so we're
- 5 not afraid of a higher patentability standard. A lot of
- 6 the lawsuits with the ankle biters as we call them,
- 7 people coming after us with random would-be patents, we
- 8 think those are questionable so we think it works in our
- 9 favor.
- 10 MS. MICHEL: Steve you nodded.
- 11 MR. MILLER: I think it's been good from the
- 12 standpoint that we're going to see less of these
- marginal patents that really contribute nothing to the
- 14 technological arts.
- 15 Now, on the other side of the coin I think the
- 16 Patent Office has taken it way too far now and we need
- to look at how the examiners are applying the case law
- 18 because I think they've swung the pendulum from here all
- 19 the way to the other side. One of the reasons their
- 20 allowance rate is so low is they've over-applied the
- 21 KSR case.
- 22 Almost any mechanical case that you see these
- 23 days says that, well, it's a simple invention where you
- 24 put two things together, and so I think we've got to get
- 25 the Patent Office back to where it should be and then

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1
      KSR is going to be a good thing for all the parties.
 2
              MS. MICHEL: Any thoughts about the cases, KSR
 3
      or any of the others?
 4
              MR. PHILLIPS: I'm certainly generally in
 5
      accord. I think most of these are incremental changes
      Rather than radical, and they have not had a
 6
 7
      profound impact on our practice. Also significant, you
      have to pay attention to them but they weren't profound
 8
 9
      problems.
              MS. MICHEL: Okay. Great. Thank you.
10
      just about out of time. Would any of the panelists have
11
12
      any last points you would like to make and we'll wrap
13
      up?
14
              Hearing none I will thank you very kindly.
15
      has been a very interesting and helpful discussion for
      us and thank you for participating. We'll be back in 15
16
17
      minutes to talk about the Life Sciences Industry.
18
              (Whereupon, a brief recess was taken.)
19
20
21
22
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For The Record, Inc. (3tmInc.3tmInc.3tmInc.

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- 1 PANEL 4: LIFE SCIENCES INDUSTRIES
- 2 MODERATORS:
- 3 SUZANNE MICHEL, FTC

5 PANELISTS:

- 1 intellectual property counsel for Wyeth and Infinity
- 2 Pharmaceuticals before joining Hydra Biosciences.
- We have Steve Jensen who is a partner
- 4 in the Orange County office of Knobbe Martens Olson &
- 5 Bear where he works on intellectual property litigation,
- 6 negotiation, licensing and strategic counseling matters
- 7 with clients in a wide range of technologies including a
- 8 large portion of his work in the medical device
- 9 industry.
- 10 We have Jeff Myers, who is Vice President and
- 11 Assistant General Counsel for Intellectual Property
- 12 Enforcement for Pfizer where he manages all of Pfizer's
- worldwide patent litigation. He's also drafted and
- 14 prosecuted patents in chemical and in biotechnology arts
- 15 for Synaptic Pharmaceutical Company, and he was a patent
- 16 attorney at Fitzpatrick, Cella, Harper & Scinto before
- 17 joining Pfizer.
- 18 We have Maggie Shafmaster, who is Senil pdVtters

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1 Group and co-chair of the Life Sciences Industry Group
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- 2 at Wilmer Hale, and he's focused on the life sciences
- 3 industry for three decades.
- 4 MR. SINGER: 1978.
- 5 MS. MICHEL: He serves as counsel in the
- 6 life sciences sector including biotech medical device
- 7 and pharmaceutical companies. His practice focuses on
- 8 joint ventures, strategic alliances, corporate and
- 9 securities law, public offering, venture capital
- 10 transactions involving the biotechnology and other life
- 11 sciences industries.
- 12 Thank you all very much for joining us today. I
- think you can see that we have people coming at these
- industries from different perspectives, start-ups, big
- 15 companies, medical devices, biotech, pharma and I think
- we'll have a very interesting discussion.
- I would like to start with just a broad general
- 18 question to allow each of the panelists to tell us a
- 19 little bit about your company or your
- 20 clients, and how your company or clients use patents
- 21 primarily, why patents are important and why you were
- 22 willing to very generously give us your time today to
- 23 talk about this topic. Maggie?
- 24 MS. SHAFMASTER: Thank you. Thank you very much
- for having us and thank you for giving me this

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1 opportunity. Actually I'm looking forward to talking a
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- 2 little bit more about Genzyme and what we do because I
- 3 think we have a unique business model in terms
- 4 of where we started and where we've ended up and in
- 5 hearing about that, you'll understand why patents are so
- 6 important to us.
- We are now a global biotechnology company
- 8 dedicated to making a major positive impact on the lives
- 9 of patients with serious unmet medical needs.
- 10 We started as a very small start-up in 1981 and
- 11 we've since then grown to a large enterprise with more
- than 11,000 employees bringing services and therapies to
- patients in more than a hundred countries around the
- 14 world.
- 15 We are technology agnostic. We don't do just
- small molecules or just biotech proteins. We also have
- 17 diagnostic and genetic testing services, cell therapies,
- 18 bio materials, and a lot of research efforts in gene
- 19 therapy.
- The diseases we target are also diverse,
- 21 including rare inherited disorders, kidney disease,
- orthopedics, cancer, transplant and immune disease. We
- 23 have a substantial investment in these diseases as well
- 24 as neurodegenerative diseases, cardiovascular disease,
- 25 et cetera.

```
1
              Throughout our history we've partnered with
 2
      universities, research institutions and private
 3
      companies in order to find and develop products
 4
      and bring them to market. We consistently spend about
 5
      20 percent of our revenues on research and development.
      That has allowed to bring us to patients first-in-
 6
 7
      class therapies addressing serious unmet medical needs
      at an average rate of about one new therapy per year
 8
 9
      over the last six years.
10
              In 2003, we launched two new products Fabrazyme
      and Aldurazyme. Both of these products were the first
11
12
      therapies ever approved in the United States to treat
      these very rare, often fatal genetic disorders. In 2005
13
      we launched Clolar. It was the first new leukemia
14
15
      treatment approved specifically for children in more
      than a decade.
16
17
              In 2006, we launched Myozyme, the first treatment
      ever approved for Pompe disease or for any inherited
18
19
     muscle disorder. The lists go on and on.
20
              And of these products, seven in the last six
      years, five are protected, at least in part, by
21
22
      intellectual property that we've licensed in from
      universities and two were based on IP that was developed
23
24
      either by Genzyme or by another company that we
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25

acquired.

1	In 2007, Genzyme was chosen to receive the
2 Nation	al Medal of Technology which is the highest honor
3 awarde	d by the President of the United States for
4 techno	logical innovation.
5	So needless to say, our primary use of patents
6 in the	marketplace is to protect our products for a
7 period	of time sufficient to ensure that we're able to
8 contin	ue to innovate. As everyone here knows
9 biotec	hnology is a very risky business. It's very
252 5 wift haid Hour ATEN TO THE WAR TO THE	infacten cidayolda <b>nika elimp</b> alikasayoni ismoklaiseVissa d <b>idakayotka</b> yayoekeafophhy
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1 out-licensing of patents generally around research
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- 2 tools, and we non-exclusively license third-party
- 3 patents usually just for freedom to operate purposes.
- 4 We take great care in our freedom to operate
- 5 searches. We thoroughly analyze all of the patents out
- 6 there. We keep an eye on third-party patents and what's
- 7 happening with them, and we make sure before embarking
- 8 on development pathways that we will have all the rights
- 9 we need.
- 10 MS. MICHEL: All right. Thank you very much.
- 11 Steve?
- 12 MR. JENSEN: Thank you for inviting me here.
- 13 First, I ought to mention that since I'm not here from
- 14 any particular company or representing any particular
- 15 client, I need to state that the views I express are not
- 16 those of my firm or of any particular client. They're
- my views and shouldn't be attributed to any given matter
- 18 that we have going on.
- I have to be careful about that. Although I don't
- 20 have any particular company to give the views of, I
- 21 can tell you a little bit of where I come from and where
- 22 my views come from. I'm an electrical engineer by
- 23 trade, turned lawyer and originally started representing
- 24 companies principally in the giant technology computer
- 25 industry.

```
1
              Shortly after I started practice, I became
 2
      exposed to what we call life sciences, and in my case,
 3
      mostly medical device technology companies involved in
 4
      improving medical monitoring or other types of things.
 5
      I quickly turned most of my attention to those types of
      clients as I found them much more interesting, and a
 6
 7
      large portion of my practice has therefore been taken
      over by that particular segment of the market.
 8
 9
              I've represented companies, to give you an idea
      of where my views come from, just to name a few, pulse
10
      oximetry -- one of which we saw this morning in Joe Kiani
11
12
      and Masimo and the Chairman of the MDMA -- noninvasive
     blood constituent monitoring of all different types,
13
14
      glucose monitoring companies, ultrasound imaging,
15
      cardiac output measurements, respiration rate,
      interventional cardiology, refractive surgery, medical
16
17
      lasers, corneal surgery, infusion pumps and something
      that's going on quite frequently today which is the use
18
19
      of semiconductors in diagnostics where you
```

might put a drop of blood on a semiconductor and it will

20

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1 invest heavily in this technology much like a drug
```

- 2 company would. There's a great deal of runway to get
- 3 these products to market, to make sure they don't hurt
- 4 patients, number 1, and then to make sure that they do
- 5 good. The early stage companies in this arena will
- 6 spend usually at least 10 percent of their R&D spending on
- 7 protecting that technology through the patent system.
- 8 Their spending on intellectual property actually
- 9 goes up as they get closer to product release and start
- 10 looking for clearance information, which they start very
- 11 early in the process. Most of these companies will
- start that very early in the process to try to
- understand the patent landscape, what they have to deal
- 14 with, what else is out there and do what the system is
- 15 designed to do which is to foster the innovation and
- 16 encourage the innovation.
- I think it's pretty important to note that our
- 18 constitution recognizes that patents were put into place
- 19 to encourage innovation, and that's what they have done
- 20 in the medical device world. It gives my clients the
- 21 confidence to know that they can invest in the
- 22 technology, that they can raise money in the technology,
- 23 that they can make business decisions and move forward
- 24 with the technology.
- 25 If you think of the list of technologies and

```
1
      there's been many more that I've worked in, how many of
 2
      us haven't been touched by one of those technologies or
 3
     many of them improving our medical care, and in many
 4
      cases making medical care less expensive and better and
 5
      bringing things to improve our lives.
              So that's what my clients use them for is to
 6
 7
     protect. Now sometimes they're also defensive. They
      may be acquired or licensed-in, because there's a
 8
 9
      particular area in the clearance process that we find a
      stumbling block or a thorn, and we evaluate those much
10
      like the last panel spoke in determining what -- where
11
12
      the problems are. We look at those and figure out
13
      which ones will cause a problem and which ones won't,
14
      and some we purchase. Some we license in, and some we
15
     believe are not a problem and we go forward and provide
      those clearance matters, so that's what my clients use
16
17
      them for.
18
              I think any adjustments to the system have to be
19
      done very cautiously. There's been a lot of talk today
20
      about the changes in the law. I'm not sure that we
      know what those are going to entail just yet because
21
22
      they haven't been there long enough, but certainly I
23
      think there's one thing that I've noted since I've been
```

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1982 when the Federal Circuit was put into place, I

in practice for almost 20 years, and that is that since

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25

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discovery is very, very expensive. It's also time
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- 2 consuming and unpredictable. So, just as a little bit of
- 3 a benchmark typically one out -- only one out of
- 4 thousands of compounds will be proven to be both
- 5 medically effective and safe enough to become an
- 6 approved medicine.
- 7 That can take a long time to show to the FDA and
- 8 other agencies. It could be ten years from discovery to
- 9 approval, and after all of that, a product that receives
- 10 regulatory approval may not achieve commercial success.
- 11 Exubera being one example if people are familiar with
- 12 that.
- So in this context, innovation by our R&D
- operations and strong patent protection for that
- innovation is critical to the company's success. Our
- innovations come from a lot of sources: Internal
- 17 research, contracts with third parties, collaborations
- 18 with universities and biotech companies and with other
- 19 pharmaceutical companies.
- We also seek out promising compounds and
- 21 innovative technologies by third-parties to incorporate
- 22 into our discovery and development processes as well as
- 23 our product lines through acquisitions and other
- 24 arrangements.
- 25 So given the challenges and risks inherent in

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1 the drug development process, strong IP protection for
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- 2 innovation both here in the United States and abroad is
- 3 critical to our success. So, to put a sharp point on the
- 4 issue, our business model is highly dependent on our
- 5 ability to obtain injunctive relief to prevent copies of
- 6 our medicine from being sold in violation of our
- 7 exclusive rights. So if you're a generic manufacturer
- 8 we want you to stay out of our front yard as long as
- 9 possible.
- 10 So as already noted we are a licensee, more
- 11 frequently a licensee than a licensor, and we are an
- 12 acquirer of IP rights. Not all acquisitions are as big
- as the one that's being contemplated right now, but if
- 14 you look at your 10-K, you will see that just in the
- 15 last year we acquired several companies for different
- 16 amounts of money. I mean, \$300 million or a couple
- 17 hundred million dollars is on the scale of what would be
- 18 a normal acquisition for us.
- 19 So because we are a licensee and we use a lot of
- 20 IP both in connection with our products and also with
- 21 the processes for developing and making those products,
- we're not only a plaintiff, although usually a
- 23 plaintiff, but sometimes we're a defendant in patent
- 24 infringement actions.
- 25 And I think I just want to stop and move on to

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1 the questions that Suzanne has posed to the groups with
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- the note that we're very keenly aware of the need for
- 3 balance in addressing the needs of different innovative
- 4 industries that we've been hearing about, technology,
- 5 universities, pharma, and the diversified products
- 6 companies. I think it's interesting that virtually
- 7 everybody who has come in here who has basically been at
- 8 this for a long time says, let's be careful, let's not
- 9 be afraid to act but let's be careful in crafting
- 10 legislative solutions for everybody that don't
- 11 necessarily leave any one industry short changed.
- 12 MS. MICHEL: Thank you. Steven?
- 13 MR. SINGER: Like the other Steve, I'll make the
- 14 statement that my views are my own, not the firms or any
- 15 clients, and I'll also make the statement that unlike
- 16 everybody else on the panel here, I'm not a patent
- 17 lawyer. I'm a corporate lawyer, so I approach
- 18 things with a different perspective.
- 19 I've worked with companies in the life science
- 20 sector almost exclusively for about 30 years, as you
- 21 said, and I've had a substantial opportunity to observe
- these companies and really get a sense of what makes
- 23 them tick. What does it take to discover a potential
- 24 drug, to test it in extensive clinical trials, to try to
- launch the produce in competitive markets, to try to

1

13

14

15

17

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2
      costs involved at all stage.
 3
              The process and the financing part is where I
 4
      get most involved. I work with a broad span of
 5
      companies so the views I have are influenced by that.
                                                              Ι
      work with professors at universities who have an idea
 6
 7
      but not much else, with early stage companies who are
      trying to raise financing, with mid-stage companies
 8
 9
      that are moving forward with potential products, that
      are seeking to raise capital to develop these products,
10
      of course today in a very difficult financing
11
12
      environment, with more mature biotech companies getting
```

ready to launch products, with pharmaceutical companies

these biotech companies, and finally with the financing

that are seeking to access the pipelines of some of

deal with generic competitors, to finance the heavy

- sources, companies like venture capital firms, 16 investment banks and the like.
- 18 There's one clear and consistent message. Ι 19 think you've heard that from everybody today but it's 20 particularly true in life science, and that is without a strong vibrant and productive patent system, a very 21 22 strong patent system there won't be a biotech industry.
- 23 When investors are considering making an 24 investment in a biotech company, the very first 25 diligence item they face after they look at the science

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1 is the patent position.
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- When a pharma company is exploring a potential
- 3 collaboration with a biotech company, if there's no
- 4 strong patent position, it's simply not going to happen.
- 5 This focus on patent protection is not irrational.
- 6 It takes ten years or more of sustained substantial
- 7 effort and investment to develop a drug from concept to
- 8 market.
- 9 The average cost -- independent sources estimate
- 10 that it's over a billion dollars per drug. Most
- 11 promising drugs, as Jeff said, fail along the way, and
- when a drug is finally approved, after all those years,
- a good chunk of the patent life is already gone and
- 14 generic competitors are chomping at the bit to
- 15 interfere.
- So when you consider the fact that we're
- 17 addressing an industry today that develops products that
- 18 are life preserving, life saving, that's incredibly
- 19 productive. It's considered to be one of the most
- 20 productive, the best in the world, employs hundreds of
- 21 thousands of people and has the prospect for increasing
- 22 employment when you think about bio fuels and everything
- 23 else. I think we just need to be really careful and
- 24 cautious when we make changes to the patent system that
- 25 may impact the industry negatively.

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1
              MS. MICHEL:
                           Thank you. Christine?
 2
                           So unlike a lot of the other
              MS. BELLON:
 3
      companies that you've heard from today, Hydra
 4
      Biosciences is probably a new name to a lot of you so I
 5
      appreciate the opportunity to come talk about Hydra and
 6
      about Hydra's views on patent reform.
 7
              Hydra Biosciences is a private venture-based
 8
      company in Cambridge, Massachusetts. We're trying to
 9
      develop drugs against a class of ion channels called the
      TRIP ion channels. Ion channels regulate the flow of
10
      ions across the cell membranes so this affects things
11
12
      like nerve impulses, muscle function and cardiac
      function.
13
14
              In the past the ion channels were hard to design
15
     drugs against because a lot of the ion channels are
      homologous which means they look alike and act alike, so
16
17
      if you tried to develop something that hit one ion
      channel you could inadvertently affect another ion
18
19
      channel such as the one that controls cardiac function.
20
              The trip ion channels are a new class.
      were discovered ten years ago, and what makes them
21
22
      special is that they're not homologous to other ion
23
      channels and they're not that homologous to each other,
24
      so you can selectively target one trip ion channel and
25
     not other ion channels, so you can do
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MS. BELLON: Well, some of the IP for Hydra
 1
 2
      actually started because we licensed-in some technology
 3
      from a university. This is kind of typical of how a
 4
      lot of start-ups, especially in the Boston-Cambridge
 5
      area, get started. So we licensed in some technology
      from university, but Hydra was very forward
 6
 7
      thinking in that as soon as they started doing research,
      they also started building their IP portfolio because
 8
 9
      they knew -- I wasn't there at the time but they knew
      that that was going to be the value driver for the
10
11
      company.
12
              So it started -- almost the moment that research
13
      starts, they started building the IP estate.
14
              MS. MICHEL: All right. And other early-stage
      technology, Steve, can you talk about these very early-
15
      stage developments and how the IP plays in there?
16
17
              MR. SINGER:
                           Sure. The way products typically
      get developed is you have an idea that comes in from a
18
19
      university, a professor as I mentioned who has a
20
     particularly good idea, and the university licensing
21
      offices works with venture capital firms or angels in
22
      some cases, but more likely venture capital firms, and
23
      the crux of the transaction is in licensing of an
```

interesting patent estate.

24

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And without that patent estate there's really

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1 nothing for the venture firm to make an investment in,
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- 2 and that's how these companies get started so Hydra is
- 3 very typical.
- 4 MS. MICHEL: Christine, can you talk about
- 5 how a start-up keeps building its patent portfolio? You
- 6 don't just stop with those first patents, from
- 7 the professors, do you? As you continue to develop new
- 8 technology how important is it to keep patenting?
- 9 MS. BELLON: It's important for everyone I think
- in the life sciences. I think it's particularly
- important for small companies like Hydra. One of the
- 12 advantages that Hydra had is Hydra is a pioneer in the
- trip ion channel field, so because Hydra was one of the
- 14 first companies researching these trip ion channels,
- 15 there was essentially a lot of IP space and so we were
- 16 able to build a really strong portfolio around this
- 17 space.
- 18 MS. MICHEL: This concept of there being a lot
- 19 of space, how important is that in thinking about where
- to put the money, where to do more research?
- 21 MS. BELLON: It's important, and I think a lot of
- 22 us have the same view that we would not invest the hundreds
- 23 of millions of dollars into developing a new drug, if we
- 24 didn't think we had clear IP space. If we thought there was
- going to be an FTO [freedom to operate] problem, we

```
1
              I think the courts have always
 2
      recognized that pioneers deserve broad patent
 3
     protection, but you have to balance that against the
 4
     need for a fair disclosure of what it is you've
 5
      really invented, and when you have arts where the
      terminology and maybe the technology are fairly
 6
 7
      immature, which I think is frankly the case with the
      software industry and the semiconductor industry, you
 8
 9
      know you have people grappling, trying to get as much as
      they can, working with terms that not everybody agrees
10
      on and tests that not everybody knows how to perform.
11
12
              And so I think you have to be willing to live
      with that a little bit, and I guess my view, jumping all
13
14
      the way towards the later parts of your
15
      questions about how do these cases affect that -- a lot
      of times we see a case come down, and it doesn't look so
16
17
     great at first glance and we all freak out and run
      around and say this is the end of whatever.
18
19
              And then we watch while the courts who have a
20
      lot of common sense develop these doctrines, so I think
      sometimes we're in a hurry for certainty. Businesses
21
22
      are in a hurry for certainty. We look at court cases
      and we think, "oh no, now it's uncertain" and we have to
23
     kind of work through that.
24
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I think what you see when you have a lot of

25

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1 space in a particular technology is that it can be
```

- 2 difficult and time consuming and a bit of sausage making
- 3 to watch the courts and the companies and the government
- 4 try to figure out what to do with it.
- 5 MS. MICHEL: Okay. Steve?
- 6 MR. JENSEN: I think that raises an issue of
- 7 something that's come up earlier in the day which is the
- 8 notion of the continuation practice in patent
- 9 applications. It's very hard, particularly when it's a
- 10 pioneering technology and my clients are principally --
- I'm not a chemist so it's not the drugs. It's the
- 12 devices.
- These are technology devices. They're software.
- 14 They're computers. They're sensors. They're
- 15 semiconductors, catheters, things that you can hold, and
- 16 you're not always sure right when you start. A lot
- of these start-up companies don't even have the funds to
- 18 try to figure out or pay their patent lawyers enough to
- 19 figure out exactly where that fence can properly be
- 20 drawn.
- 21 MR. MYERS: Especially those lawyers at law
- 22 firms.
- 23 MR. JENSEN: So the continuation practice, is
- 24 particularly important for those start-up companies so
- as the portfolio develops, they can craft it so that it

- 1 properly covers the space as opposed to, oops, we
- 2 stepped a little over here and captured the prior art
- 3 because we were a little too broad or we were too
- 4 narrow. We only captured precisely what we were doing
- 5 but everybody can do exactly what they're doing without
- 6 stepping on the patents.
- 7 So the continuation practice, which has come up a
- 8 few times through the day, is critical for developing
- 9 that portfolio, as the client, as the company learns
- 10 really what is the protectable space.
- 11 MS. MICHEL: Interesting. Do any of the other
- 12 panelists have comments on this concept of the
- importance of continuations in protecting the space
- 14 outside medical devices? Does it come up for
- 15 chemical, biotech? Do you face the same kind of
- 16 problems? Jeff? 22 patent applications.
- 17 MR. MYERS: Yeah. I think we see that and we
- 18 see that when we're trying to evaluate technology,
- 19 trying to figure out whether we have freedom to operate
- in a particular area. One of the things I think that
- 21 has offset that to a degree is the publication of U.S.
- 22 patent applications.
- 23 And as one of the earlier -- one of the

```
1 reasonably be granted out of a specification. I
```

- 2 have to tell people internally at Pfizer all the time,
- 3 there is no such thing as a risk-free path. You just
- 4 have to figure out what the big risks are, what risks
- 5 you can address and what risks you just have to live
- 6 with.
- 7 So, a continuation process creates some
- 8 uncertainty, but by the same token it is probably better
- 9 than forcing companies to either give up too
- 10 early or to unduly narrow their patent claims versus
- 11 forcing the Patent Office into a position where they're
- 12 either not granting anything or they're letting things
- out that are too broad. So again with continuation
- 14 practices it's babies with the bath water.
- MS. MICHEL: Maggie?
- 16 MS. SHAFMASTER: I would just like to agree and
- 17 expand a little bit. Continuation practice is
- 18 extremely important because at the time that you're
- 19 filing your original application, this is work that's
- 20 being done at the bench. You may have some in vitro
- 21 studies and a few animal studies, but it's years before
- 22 you would even get into your first human patient, and
- 23 then continuous years through your clinical trials. And
- 24 all that time you're learning more about the drug and
- 25 how it works and how to formulate it and how to dose it,

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and the continuation practice allows us to ultimately
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- 2 come out with stronger patents that are more
- 3 specifically directed toward the final product, and
- 4 stronger patents means more certainty. It means less
- 5 risk and it means we're more likely to invest in that
- 6 product.
- 7 With regard to the criticism of continuations
- 8 that you don't know what someone is going to claim and
- 9 therefore, there's no way to clear them, we don't seem to
- 10 have that problem. I think we're very capable of
- 11 reading a specification and being able to tell what kind
- of claims might come out of that specification.
- 13 There may be some uncertainty about changing
- 14 standards at the Patent Office in terms of what's valid
- or what's patentable, but in terms of the scope of what
- that specification will support, we don't see an issue
- 17 with that.
- 18 MS. MICHEL: Okay. And how is your ability to
- 19 assess what patents are out there that you will need to
- 20 license in or deal with in order to get freedom to
- 21 operate?
- 22 MS. SHAFMASTER: So, when we do a patent
- 23 clearance search, we look at granted patents but we also
- look very closely at pending applications, and the
- 25 question is not what claims are in that application, the

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1 question is what claims could that specification
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- 2 support.
- 3 MS. MICHEL: Okay.
- 4 MS. SHAFMASTER: Could they write a claim that
- 5 would cover us?
- 6 MS. MICHEL: Do you have any concerns about the
- 7 ability to interpret the claims predictably? Claim
- 8 interpretation has been called a very unpredictable
- 9 process in a lot of industries, 50 percent reversal rate
- 10 and that sort of thing.
- Is that a concern that you face when you're
- thinking about where to invest money and what kind of
- freedom to operate you need? Christine?
- 14 MS. BELLON: It is a concern but I want to point
- 15 out that you don't get faced with an issued patent and
- 16 then have to wonder how those claims are going to be
- interpreted. The vast majority of applications
- 18 nowadays, the prosecution history is available on Public
- 19 PAIR so you can go into any pending application and look
- 20 to see how the applicant himself or herself is in fact
- 21 defining the terms in the claim.
- 22 So you get a lot of guidance as the application
- 23 is going through the Patent Office on how both actually
- 24 the PTO and the applicant are going to interpret those
- 25 claim terms.

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1
              MS. MICHEL: Okay. And once the patent issues,
 2
      are the doctrines surrounding claim interpretation
 3
      satisfactory, at least in the biotech industry, to have
 4
      some confidence in how a court might interpret those
 5
      claims and be able to identify those claims that you
      need to deal with?
 6
                         Jeff?
 7
              MR. MYERS: Yeah, I think that the uncertainty
      around -- or the notion that there's a lot of uncertainty
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 9
      around the scope of issued patent claims, echoing what
      Christine said, to the extent that's out there, I
10
      suspect it's probably overblown.
11
12
              We also have not just the file histories now but
13
      we also have Festo, which really provided some clarity
14
      about what you can do with the file history, so I'm
      thinking back a few years ago to the Purdue Pharma case
15
      where they reached back into the specification in a
16
17
      continuation and pulled out basically an example and
      wrote claims around it, and the Federal Circuit said,
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19
      "No, no, no, that's not an invention."
              So there are cases where companies have frankly
20
      overreached in trying to say, "Oh, somebody else is out
21
      there, we want to try to capture them," we still have a
22
      continuation pending so we're going to go back and write
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24
      our claims to cover these guys by straining, turning
25
      this example which was not -- clearly not part of the
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1 invention per se, we're going to turn that into a claim.
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- 2 The court said, "wait a second, this isn't correct,
- 3 this is not an invention," so out goes your patent.
- 4 So I think there's enough case law out there to
- 5 give us sufficient guidance. Like I said it's never a
- 6 matter of having zero risk. You start with the granted
- 7 patents, and then you move along the spectrum to
- 8 the things which are less and less clear, and therefore
- 9 at some level you have to accept they present a less
- 10 clear risk -- so you're going to value those as a
- 11 bigger risk.
- 12 MS. MICHEL: Maggie?
- 13 MS. SHAFMASTER: I was just going to say there
- is some uncertainty. There's always some uncertainty
- 15 that the court might not come to the same interpretation
- that you've come to, and that plays into risk and how
- much risk you're willing to accept, and that plays again
- 18 straight into your models of what's the value here, and
- 19 how much am I willing to invest given this level of
- 20 risk.
- 21 MS. MICHEL: Do you have any thoughts on how to
- 22 improve that situation? In an ideal world
- 23 wouldn't patents be predictable -- we take the patent,
- look at it, here's what it covers? I know as a business
- 25 how to react. Is that something to be strived for, and

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1 if so, do you have any thoughts on how to move in that
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- 2 direction?
- 3 MS. SHAFMASTER: Well, throughout the years -
- 4 there was a time a few years ago when people thought the
- 5 case law was pretty clear about claim interpretation and
- 6 whether or not it was permissible to read limitations
- 7 from the specification into the claims. Then things
- 8 changed again, and now I think the seminal case on the
- 9 issue didn't give a whole lot of guidance.
- 10 So, again it just kind of comes down to what is
- 11 your gut telling you that a court's going to do with
- this, and if you're really not sure, are you willing to
- 13 accept that risk.
- MS. MICHEL: And you're referring to the
- 15 Philips case?
- MS. SHAFMASTER: Yes.
- MS. MICHEL: Steve?
- 18 MR. JENSEN: When we talk about predictability,
- and the reversal rate, I think they're not
- 20 necessarily exactly tied. When jurors were deciding
- 21 claim construction, we had very little ability to
- 22 predict what the construction of the claim was going
- 23 to be at the end of the day -- less than we have today,
- 24 and so it may not have been reversed by the appellate
- 25 court because there was more deference given. There was

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1 searches, we will review -- potentially thousands of
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- 2 patents come up on our searches that we'll take a look
- 3 at to make sure they're okay. I don't know that we've
- 4 ever had to contend with hundreds of thousands, if
- 5 that's really what they're contending with, but we're
- 6 willing to put in a lot of effort because by the time we
- 7 get to market, if we've got a freedom to operate
- 8 problem, that's not a problem you can get around by
- 9 designing around.
- There's way too much money and time invested to
- 11 find out you have a problem that late, so we have to do
- 12 that work, and we do that work.
- 13 MR. ADKINSON: Jeff?
- 14 MR. MYERS: Yeah, we do extensive freedom to
- operate work on projects as they're ongoing. Typically
- when a compound is sort of nominated to be a clinical
- 17 candidate, then the level of that work goes up, but I
- 18 think honestly to be fair to our IT colleagues, their
- 19 product life cycle is much faster so we have more time
- 20 to do those FTO searches, and of course we talk about
- 21 how much it costs to get a drug to market.
- 22 Most of those costs, the greatest
- 23 proportion of those costs are in the large scale
- 24 clinical trials, and so we don't have this huge
- 25 bolus of money dumped into a project at the beginning

- and then ten years later we find out if we get approval.
- 2 It's sort of a continuous investment that goes
- 3 up and up and up, so we have the luxury, if you will,
- 4 while even though our patents are running down, we get
- 5 term extension. There are various mechanisms for
- 6 addressing that. I think they're very effective in the
- 7 pharmaceutical industry, but I don't think generally for
- 8 small molecules, we're not looking at thousands of
- 9 patents.
- 10 We may be looking at a couple dozen. We have
- 11 time, and the amount of money invested in a single
- 12 project and product is substantial enough to justify a
- 13 bigger investment in that FTO effort. On the other
- hand, if you're developing a product, and you're already
- 15 taking a hundred licenses to various components, and
- 16 you're thinking, well, now I have to go out and look at
- 17 500 more patents, there's a risk benefit ratio in that

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1 which really are computers in many respects, there can
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- 2 be very, very large numbers of patents that have to be
- 3 looked at, and we have processes that we can go through
- 4 to funnel those down to the point where we get them to a
- 5 point where they are the ones we think we are looking at
- 6 the right ones.
- 7 I think that the main difference in that
- 8 technology and the IT space from the panel earlier today
- 9 really has to do not so much with the sheer numbers but
- to do with the time period of the duration of the
- 11 market. It's a much shorter life cycle for those
- 12 products.
- And so even though we may have just as many
- 14 patents to look at, with my clients that are in the
- 15 medical device sector, there is usually -- it's a
- 16 stickier product. It has a longer life cycle. It
- doesn't change as quickly because of many of the
- 18 regulatory and other issues that touch the medical
- 19 device industry.
- MS. MICHEL: Steve, is the timing, the
- 21 development timing also -- the time that it takes to
- develop the product also important?
- 23 MR. JENSEN: That timing gives you the runway to
- 24 do the clearance search. Even if there are thousands of
- 25 patents to look at, you don't have to read all of the

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1 thousands of patents. You might look at abstracts at
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- one level. You might pull 20,000 patents and look at
- 3 abstracts, that's a paragraph you're looking at and then
- 4 you look at -- drill down a little bit deeper, maybe
- 5 look at the pictures. But, that ramp gives you more time
- 6 to do the clearance work that needs to be done in the
- 7 medical device area.
- 8 MR. SINGER: Same in the biotech. It's not an
- 9 optional thing to check out very carefully the patent
- 10 landscape. It's more mandatory. I'm not aware of any
- 11 companies that don't undertake that review, and I don't
- think the boards of directors of small companies would
- 13 permit them to go forward unless they were doing that in
- 14 a very vigorous basis.
- 15 MR. JENSEN: Neither will the venture
- 16 capitalists.
- 17 MS. SHAFMASTER: Just one last point about doing
- 18 the clearance as development occurs is a very important
- 19 one because you can in the beginning just look at the
- 20 patents around the protein. At that point, you're not
- 21 really sure how it's going to turn into a product, and
- 22 then as the scientists start figuring out well this is
- 23 the expression system we want to use to express it, then
- 24 you can start clearing those patents.
- Then this is the way we think we want to

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1 formulate it, and then you can look at those patents so
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- 2 it is much more amenable to staging than having
- 3 everything all of a sudden at once you have to clear the
- 4 entire product and every step you used in manufacturing
- 5 it.
- 6 MS. MICHEL: Christine?
- 7 MS. BELLON: I want to add one thing. It's not
- 8 always the most fun to do an FTO analysis, but it's also
- 9 an incredibly rich sources of information. First of
- 10 all, I'm not sure if I told the scientists in my company
- 11 to stop looking at the patent literature that they would
- because that's where they get a lot of their ideas.
- As you're looking at other company's published
- 14 patent applications in the same fields, you get a lot of
- 15 new ideas how to innovate your own research. So, while we
- 16 do it to protect ourselves from a legal point of view,
- it's also really helpful to the scientists to see what
- 18 other companies are doing.
- 19 MS. MICHEL: Do you have a question?
- 20 MR. ADKINSON: One quick one for Steve. Because
- 21 your devices are -- of your clients tend to involve high
- 22 tech issues, do you get non-practicing entity suits more
- 23 so than some of your colleagues might here?
- MR. JENSEN: I think it's more common in the
- 25 medical device arena than it would be in the pharma and

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1 see an attack by an area that really has to do with a
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- 2 technology in the microprocessor, and I would
- 3 say that properly belongs in a dispute with the
- 4 microprocessor company, not the medical device company.
- 5 But those entities do come after -- it's just
- 6 started so they're coming after the medical device
- 7 companies. We've been able to deal with them I think
- 8 fairly effectively, but they are occurring and they're
- 9 increasing.
- 10 MS. MICHEL: Why? Do you have a theory on why
- 11 they're going after the device manufacturer, not the
- 12 microprocessor manufacturer?
- 13 MR. JENSEN: I don't have a theory. I think
- 14 it's just another target that has developed and the
- 15 realization that there are competitors out there in the
- medical device world so there's another target to go
- 17 after. It isn't a new problem.
- 18 There have been various ways that these leftover
- 19 patents so to speak get asserted to try to obtain some
- 20 value from them after a company has failed or they have
- 21 not seen at the technology make it to market. There are
- 22 just different avenues, and I think the system can get
- 23 skewed a little bit -- if you can choose
- 24 a path of enforcement that will lead to uncertainty, if
- it can lead to uncertainty, then maybe you can obtain

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1 more value out of those patents than someone would
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- 2 normally anticipate.
- I think that most companies in the medical
- 4 device arena are simply fighting those and succeeding.
- 5 I've been involved in several where at the end of
- 6 the day the cases are just dropped and with no payment
- 7 at all.
- 8 MR. MYERS: Put another way, once you payoff the
- 9 blackmailer it never stops. So, you do have to make some
- 10 choices about going to court with some of these people.
- 11 MS. MICHEL: Is this a matter of establishing
- 12 reputation of a company as a fighter? Is that a
- conscious decision? If it's possible to settle for less
- than it's going to cost to litigate, what's the
- decision process there in fighting?
- MR. JENSEN: Many medical device companies will
- 17 not evaluate it in that sense. They will evaluate it in
- 18 a sense of: Is it a meritorious claim, and if it is
- 19 not, most, if they have the resources, will fight it
- through. They will not withstand being held up.
- 21 MR. MYERS: I'll add one more comment because I
- 22 was here for the panel on injunctions, and there was the
- 23 analysis by -- was it someone from Sidley? I'm trying
- 24 to remember who gave the analysis, but the courts -
- MS. MICHEL: Yes.

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1 MR. MYERS: -- if you look at the analysis of
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- 2 cases involving injunctions or a request for
- 3 injunctions, courts have not been that friendly for the
- 4 sort of quintessential non-practicing entity. They
- 5 don't get injunctions that often, and I think it's for a
- 6 lot of these reasons.
- 7 MS. MICHEL: Okay. Has that affected -- Steve,
- 8 have you noticed whether *eBay* has affected the frequency
- 9 of suits or the amount of settlements or the extent to
- 10 which a company will fight?
- 11 MR. JENSEN: I think it has given an added
- 12 number of companies -- there's varying levels of risk
- 13 aversion in different clients and some can take more
- 14 risk than others. They're just more comfortable with
- 15 more risk. I think since the eBay decision more are
- 16 willing to stand up to that attack if they believe that
- there are no merits to the case.
- 18 I think that has also resulted in a
- 19 reduction in settlement amounts, when settlements
- 20 do occur. The threat of the injunction is
- 21 dramatically reduced, and that had previously resulted
- in sometime some anomalies in the system where
- 23 the patent may have commanded more than it would have
- 24 prior to eBay.
- MS. MICHEL: Has eBay had any effect in the

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1 biotech industry separate from the medical device
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- 2 industry?
- MS. BELLON: Well, I would say both eBay and KSR
- 4 have certainly had an indirect effect. It's hard in
- 5 these economic times to tease out the
- 6 hard economic times versus fear of investing in life
- 7 sciences because of cases like eBay and KSR.
- 8 But to elaborate a little bit on one of Jeff's
- 9 points earlier, when KSR was decided I think there was a
- 10 lot of panic in the patent community like, "oh, no it's
- 11 going to be impossible to get a case through the patent
- office, everything is going to be found invalid for
- obviousness." After a while, we saw the cases that were
- 14 coming out and we decided that in fact that wasn't the
- 15 case.
- 16 You can still get patents on new inventions. But,
- 17 significantly after the patent community had
- 18 come to that realization, I was at a meeting
- 19 with a bunch of investors, and the investors are still
- 20 referring to KSR as that Supreme Court case that makes
- 21 everything obvious.
- 22 MR. SINGER: One thing I would add to what Chris
- 23 is saying, the question is really when do we get to the
- 24 tipping point because KSR in and of itself, eBay,
- 25 Seagate, Quanta, MedImmune, patent reform, at what point

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1 have you made so many changes to the system that
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- 2 investors will throw up their hands and say, "It's better
- 3 to invest in the IT industry or it's better to invest in
- 4 medical devices as opposed to drugs." That's the
- 5 concern that the biotech industry generally has.
- 6 It's not one case in particular. It's the
- 7 pattern, and when do we really hit the point that
- 8 investors are just not going to be willing to play
- 9 anymore.
- 10 MS. MICHEL: Is it possible to argue that KSR
- 11 was a benefit and the patents that issue now are
- 12 stronger? Can the investors look at it that way?
- MR. SINGER: I would defer to my patent
- 14 colleagues, but in talking to companies I work with, I
- 15 think their belief is the patent examiners have not
- 16 really known which way to go in terms of analyzing
- 17 patent applications and that there's just a lot of
- 18 uncertainty as a result of that.
- 19 MS. MICHEL: Okay.
- 20 MS. BELLON: For us, uncertainty about the IP
- 21 estate is always bad because it makes the investors
- 22 hesitate to invest in us.
- 23 MS. MICHEL: Okay. eMICHEL: Okayrennnnnnnnnnnnnnnnnn

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      worried about separate, with regard to the patent
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      estate?
                           I think first of all what Chris
 3
              MR. SINGER:
 4
      said is really important, which is we're not dealing
 5
      with a controlled experiment here in that there's a
      whole economic situation out there that impacts what
 6
 7
      everybody does and the risks that people are willing to
      take. To some extent, it means that people can point
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 9
      to something when they really don't want to make another
      investment. They can just point to, "Oh, the patent laws
10
      are whacky so I'm not willing to make the investment."
11
12
              But investors who are giving serious
      considerations to making investments, as I said I don't
13
14
      think it's one thing over and above the others.
      just the dimension of things. It's the climate for
15
     patents and patent enforcement and the sense that there
16
17
      is a hostility in the judiciary, and there's hostility
      in the administrative branches and legislative branches
18
19
      right now against strong patent protection.
20
                           Okay. I'm curious how much of that
              MS. MICHEL:
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      sense of hostility is a perception and how much do you
22
      think it's really grounded in reality though? What I'm
      wondering is how sophisticated are the investors in
23
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understanding the impact of KSR on the biotechnology

industry and the impact of eBay on the biotechnology

24

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- 1 they are taking and whether or not the investment is
- 2 going to payoff. If the law changes mid course, that
- 3 just changes the formula under which they invested, and
- 4 that worries them, and so they do ask many questions to
- 5 drill down what does this mean about each individual
- 6 one.
- 7 But the overall sense is that as they drill down
- 8 on each one is that right now they're in an environment
- 9 where the pendulum is swinging against the patent owner.

- drug field per se, they're saying: How long are you going
- 2 to be able to sell this product before generics come on
- 3 the market? What's your LOE [loss of exclusivity] date?
- 4 And echoing what Maggie said before, our
- 5 valuation models and the valuation models of the
- 6 investors, you try to quantify that risk, and the fact,
- 7 simple fact is that whereas five years ago somebody in
- 8 some hypothetical might be willing to put an 80 percent
- 9 chance of success on a given dispute or issue, now
- 10 that's 60.
- So you just -- you might have passed your hurdle

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1 creates more uncertainty and wanted to drill down a
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- 2 little bit into the individual cases to understand the
- 3 substance a little more.
- 4 MR. MYERS: Let me only speak very briefly and
- 5 defer to Maggie and Chris, but there have been some post
- 6 KSR cases in the chemical arts, and it really doesn't
- 7 seem to be having a very direct impact on the chemical
- 8 arts. There's a recognition and in the Federal Circuit
- 9 and the courts that drugs are not gas pedals.
- 10 MS. MICHEL: Okay. It's fair. Christine?
- MS. BELLON: Just to elaborate on that point, we
- took a really very careful look at the statistics and
- 13 the cases that have been decided post-KSR, and in fact
- it's actually very reassuring from being at a life
- 15 sciences company to see that KSR has had I think much
- 16 less of an effect on life science patents than we
- 17 thought it was going to.
- 18 MS. MICHEL: All right.
- 19 MS. BELLON: But we still have the perception
- 20 hanging over us that there's the Supreme Court case out
- 21 there.
- MS. MICHEL: Steve?
- 23 MR. SINGER: It's not just limited to KSR.
- 24 Maybe we shouldn't focus so much on that case.
- MS. MICHEL: I was going to break them down and

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1 go through them one at a time.
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- 2 MR. SINGER: Because I think eBay is probably a
- 3 very significant one, and I love my patent colleagues to
- 4 talk about it, but the fundamental issue for a company
- 5 with a drug going onto the market with a potential
- 6 infringer is to get them off the market.
- 7 MS. MICHEL: Yes.
- 8 MR. SINGER: Getting damages is nice but it's
- 9 not really what the game is about. It's getting them
- 10 off the market. The extent that *eBay* makes it harder or
- 11 makes it more uncertain that you will get a permanent
- injunction, it's one of those other negative factors
- 13 that are affecting investors.
- 14 MS. MICHEL: All right. Any concrete sense that
- 15 *eBay*'s actually going to make it harder to get that
- 16 infringer off the market? On our injunctions panel,
- 17 there was a lot of fear about this. We didn't hear
- 18 anything concrete.
- 19 MR. JENSEN: I think you simply have to sample
- the cases, which I haven't done statistically.
- 21 Anecdotally, I know that among patent firms, each time an
- 22 injunction is now denied at a district court with the
- 23 advent of the internet, I think every patent lawyer in
- 24 the country knows within about 15 seconds. They are
- occurring anecdotally. From what those e-mails I see

- 1 they are occurring more frequently at the district court
- 2 level.
- 3 MS. MICHEL: All right.
- 4 MS. BELLON: For one concrete example,
- 5 ultimately I think the injunction was granted but there
- 6 was the Amgen v. La Roche case about a year ago, and that
- 7 really made a lot of people in the pharmaceutical
- 8 industry very nervous because it really cuts at the
- 9 heart of the patent. A patent is the right to exclude,
- 10 and if a court is going to say to the patent owner,
- "Well, actually we're going to let this other party on to
- 12 the market and pay you some royalties." It completely
- takes away the power of the patent.
- 14 MS. MICHEL: Yes. And in the court's discussion
- 15 of the public interest in that case, as I understand
- that was one source of the concern there; is that
- 17 right?
- 18 MS. BELLON: Yes, it was very much a concern
- 19 because one of the factors that the court
- 20 used was, that there's a public interest in
- 21 getting cheaper drugs on to the market and so if we
- 22 allow the infringer on to the market, the drugs will be
- cheaper, and isn'tw in o0.04fFor the publi b4t,

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develop better drugs, I think the public is actually
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- 2 very poorly served in the long-term.
- 3 MR. ADKINSON: Has there been an increase in the
- 4 systemic uncertainty in the sense that the level of
- 5 change in the system over the last five years creates
- 6 uncertainty as to whether there will be a great deal of
- 7 more change over the next five years?
- 8 MR. SINGER: It's a hard question to answer
- 9 because when you're talking about systemic uncertainty
- and you're not dealing as I said before in a controlled
- 11 experiment environment, there's a lot of systemic
- 12 uncertainty right now. How much of it is attributable
- to the changes in the patent law, I'm not able to
- 14 determine.
- 15 MR. JENSEN: I was going to add,
- on the right to exclude, I can give you data there that
- is instructive. I think in terms of that being the
- 18 fundamental patent right, and we do have good data
- 19 there, probably came from Janicke, and that is that the
- 20 average patent infringement judgment is well below the
- 21 average price to take it to trial.
- 22 So the fees exceed, on average, the judgment, the
- damages judgment, and that tells you that those cases
- 24 are principally about excluding, not about recovery on
- average.

- 1 MS. MICHEL: Let's go back and talk about the
- 2 business model in which we have the start-up company

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1 besides just the patents, just the patent rights? Do
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- 2 the inventors go along with the technology, other know
- 3 how going along with the technology?
- 4 MR. SINGER: Sure, and it's typically a license
- 5 for the patent rights and the know-how and the data, to
- 6 the extent there is data. It's a package that goes well
- 7 beyond the patents, but doesn't include people other
- 8 than on a collaborative basis.
- 9 MS. MICHEL: All right. Very good.
- 10 MR. JENSEN: That probably differs in
- 11 the device arena where often, if you're picking up
- 12 a technology, you do want the engineers to go along with
- that technology to sustain it because most devices
- 14 require sustaining engineering as things occur out
- 15 there. You get MDRs, medical device records with the
- 16 FDA. The engineering team is usually needed when a
- 17 technology is acquired.
- 18 MS. MICHEL: Jeff?
- 19 MR. MYERS: Yeah, and I think you would see in
- an acquisition or a licensing, more typically in an
- 21 acquisition where you're getting technology that is new
- 22 but has something that's been proven or where there's a lot
- of trade secrets. I mean, getting those people is a big
- 24 part of the deal. It's fine to have trade secrets but
- 25 the trade secrets have feet, and if they leave, out go

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1 your trade secrets as a practical matter.
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- 2 MS. MICHEL: Maggie?
- 3 MS. SHAFMASTER: I would just echo that when
- 4 licensing in technology from a university, it may be a
- 5 straight patent and know-how license, but getting it
- from a small private company, it's either an acquisition
- 7 or it's usually some kind of partnership or
- 8 collaboration because those are the people that
- 9 developed it. They know it better than anyone else.
- 10 They know where they want to go with
- it, and we want them very involved. They're the experts
- in that technology.
- MS. MICHEL: What is the importance in the
- 14 biotech industry of this externally developed technology
- 15 that then becomes acquired by a manufacturing company
- 16 versus internally developed technological for biotech?
- Jeff, your company licenses or brings in this
- 18 kind of technology and develops some
- 19 internally but why is that?
- 20 MR. MYERS: I'll talk about biotechnology versus
- 21 small molecules. In the small molecule space we have a
- 22 lot of R&D expertise and manufacturing expertise, and we
- 23 have all the people and the know-how that's necessary to
- 24 do that.
- 25 Pfizer, I would say, traditionally had not

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1 invested in the biotechnology area sufficiently
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- 2 to say you could just bring in patents and maybe a
- 3 development project. We don't have the
- 4 manufacturing capacity. We do have some -- a lot of
- 5 the biotech manufacturing that involves things like
- 6 human growth hormones which we have products in,
- 7 recombinant human growth compound, that's acquired. We
- 8 outsource a lot of that.
- 9 But a big difference in the -- I don't want to
- 10 get sort of ahead of ourselves here, but we all know
- 11 that Pfizer's proposing to buy Wyeth, and that would
- turn Pfizer from essentially an insignificant player in
- the biotech space to number 4 and 5. As I mentioned
- 14 before, clearly the people -- and it's not just the vats
- 15 and the plumbing. I mean, the people are a huge part of
- 16 that value.
- MS. MICHEL: Maggie, do you have any thoughts on
- 18 why the biotechnology industry has developed in this way
- 19 where much of the innovation is done by start-ups and
- then brought into a larger company, or Christine? It's
- 21 interesting not every industry operates this way. Do
- 22 you have a thought about that, Christine?
- 23 MS. BELLON: Well, to some extent small start
- 24 ups are sort of uniquely set up to concentrate and to
- 25 really focus on a single technology, and these

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1 technologies are really complicated, and we have people
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- 2 working at Hydra who have been working in the trip ion
- 3 channel field. They've been working in this field since
- 4 the field started, so that knowledge is
- 5 invaluable to the company, and a small company -- it's a
- 6 little bit more flexible than a Pfizer, for example, and
- 7 able to sort of follow the technology a little bit more
- 8 nimbly I think.
- 9 MS. MICHEL: Okay.
- 10 MR. MYERS: Maybe a fair way to say it is look,
- 11 the biotech industry did not spring out of the
- 12 pharmaceutical industry, right. It really came out of
- universities and government sponsored research, et
- 14 cetera, and so you have long haired academics and people
- 15 who are not really going to fit into the corporate
- 16 environment.
- I mean, we even have these discussions
- 18 internally about when you acquire certain types of
- 19 technology, you want to avoid Pfizer-rizing
- it (and I like to say the word is spelled with a P but
- it sounds like something else), and so we actually
- 22 now have two independent research units.
- We have Pfizer global research and
- 24 development, the small molecule group, and then we have
- our BBC, which is San Francisco and Cambridge,

- and those are the biotech guys, and we're trying not to
- 2 Pfizer-rize them. We're trying to let them do what they
- 3 do.

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1 that's come from.
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- 2 MS. MICHEL: Okay. Steve?
- 3 MR. JENSEN: I was going to say after having
- 4 watched inventors for almost 20 years, I think there is
- 5 a particular type of person that innovates, and they
- 6 have to have around them the freedom to innovate, and I
- 7 think what Jeff was talking about is precisely so.
- 8 In fact, I think there was an article in the Wall
- 9 Street Journal this morning about Genentech and Roche
- 10 and the acquisition and the same issue and whether or
- 11 not the engineers would continue and the scientists would
- 12 continue to be given time to think.
- 13 And as I watch inventions come in through our
- doors, they're usually from people who have time to
- think, and they're thinking about problems that they're
- 16 intrigued by, and they will do this as long as
- 17 they're given the freedom to do it. That is I think
- 18 one of the reasons that sometimes you see that in
- 19 smaller companies. There's sometimes more freedom to do
- that, but large companies can do it, as well, if they're
- 21 set up right.
- 22 MS. SHAFMASTER: I would agree. As I mentioned
- 23 in my opening remarks, some of the products that
- 24 Genzyme has developed and brought to market were done
- 25 completely internally, and others were acquired in from

- 1 universities or small companies that were spin-outs of
- 2 technology from a university.
- A lot of it just has to do with focus and being
- 4 able to do what you're good at and being able to see
- 5 opportunities wherever they arise. But, if we tried to
- 6 say that all of our products were going to come from
- 7 basic research done at Genzyme, we wouldn't be able to
- 8 bring nearly so many products to market. Too many other
- 9 things need to get done.
- 10 MS. MICHEL: In structuring these deals for
- 11 bringing in this technology from the outside and making
- it commercializable, how do you value that technology?
- 13 How do you set up that deal? Steve?

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1 have confidentiality obligations to their other
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- 2 companies, they can talk about ranges of royalties,
- 3 ranges of milestone payments and upfront payment, so
- 4 there's a lot of information out there in the system.
- 5 Smaller companies I don't think are at an
- 6 informational disadvantage to larger companies, and it
- 7 hasn't posed a major issue as far as the fact that very
- 8 often you're licensing an early stage technology and you
- 9 don't know how valuable it's going to be.
- 10 That's really what the structure -- how the
- 11 structure of the deal works. That influences mostly the
- 12 up-front payment that you can get, but the milestones. If
- 13 you're successful, you will get larger payments as you
- 14 go forward. If you structure your royalties to reward
- 15 the company when the product has
- 16 higher sales, you address the uncertain valuation issue
- 17 to some extent in that way.
- 18 MS. MICHEL: So even when you're licensing early
- 19 stage technology, would you have a royalty based on a
- 20 product that may come out in the future?
- 21 MR. SINGER: You wouldn't do the deal if you
- 22 didn't have a royalty based on the product in the
- future, and the companies typically are not
- 24 doing it for an up-front payment, although
- 25 that's important for their current operation. Why

- 1 they're doing it is to build a company, and to build a
- 2 company they need royalties and milestone payments down
- 3 the road.
- 4 MS. MICHEL: Okay. Good. I don't have another
- 5 question at this point. This has been a great
- 6 conversation. Do any of you have points that you would
- 7 like to add to the discussion?
- 8 MS. SHAFMASTER: I do.
- 9 MS. MICHEL: Please do.
- 10 MS. SHAFMASTER: I wanted to make the point that
- 11 when you look at our industry, the biotech industry and
- 12 you look at what's happened over the last 10, 15 years,
- more and more of the market is becoming generic and "me
- 14 too" projects. A smaller and smaller percentage is
- left for innovators, and there are more and more things
- 16 that are happening that are going to accelerate that

- 1 And all the rest is "me too" products, and I think
- 2 that administrative agencies may be very well suited to
- 3 have that long-term view, and I would urge you to try to
- 4 keep it in mind.
- 5 MR. SINGER: I would like to make a point about
- 6 damages and the calculation of damages.
- 7 MS. MICHEL: Please do.
- 8 MR. SINGER: We haven't addressed that issues,

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- 1 investors with the way that reasonable royalties are
- 2 calculated in damages in that wouldn't it be more likely
- 3 for a biotech product to get lost profit damages if
- 4 there were infringement?
- 5 MR. SINGER: It might be, but the concern is
- 6 once again the uncertainty that's caused by prior art
- 7 subtraction method and how that would be applied in a
- 8 biotech context. It's more the uncertainty than how it
- 9 might actually work out.
- 10 MS. MICHEL: Okay. Yes, Steve?
- 11 MR. JENSEN: I was going to say on that damages
- topic, I was going to say I still have yet to see any
- data that suggests that there is a big problem in the
- 14 way damages have been calculated traditionally. I hear
- 15 anecdotes, but I have yet to see any data on that
- 16 supports that.
- 17 If anything the data I've seen suggests it might
- 18 be going the other direction, although I haven't seen
- 19 any good data on that. The lost profits question you
- 20 posed, lost profits for an early stage company is a
- 21 difficult proof. It requires several factors, and they
- 22 probably will not be able 0.ythi23e1.0- al0 1Ent

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1 with the counting convenience once you've figured out
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- what the value in the deal is and maybe you think it
- 3 should be 10 percent on a particular piece, but the base
- 4 turns into the whole product, and the royalty moves down
- 5 to half a percent, right, so they can't be talked about
- 6 separately like they're being talked about in the
- 7 current legislation in my view.
- 8 MS. MICHEL: Steve, would you agree with that?
- 9 MR. SINGER: Yes.
- 10 MS. MICHEL: Yes. Okay. One question, Steve
- 11 Jensen: When you talked about the base being a matter
- of accounting convenience, is that true or does it vary
- depending on what the claim scope is?
- 14 MR. JENSEN: The claim scope of course defines
- 15 the scope of protection, and as patent lawyers we will
- 16 often try to do something with that claim scope to
- impact the royalty base. However, again it comes back
- 18 to what the value is in that invention, right, and so
- 19 the claim scope may define a particular piece. It might
- define the cap on this bottle but that's not sold
- 21 separately.
- The bottle is sold together so while the cap is
- worth two pennies and the bottle is worth another penny,
- 24 we'll still, from an accounting standpoint, look at what
- is accounted for so the claim defines what the parties

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are talking about, but not at the end of the day how
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 2
      the royalty is actually calculated.
      Sometimes it will, if that's already in the accounting
 3
 4
      systems for the licensor or the licensee, but if it's
 5
      not easily accounted for in database systems for
 6
      tracking, it will usually become something that is more
 7
      convenient, but again scaled back to what the claims
 8
      covered.
              MS. MICHEL: Okay. All right. We are out of
 9
      time, and I thank you all very much. This has been very
10
      helpful and interesting. Thank you.
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              (Whereupon, the workshop was concluded at 5:00
13
      p.m.)
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